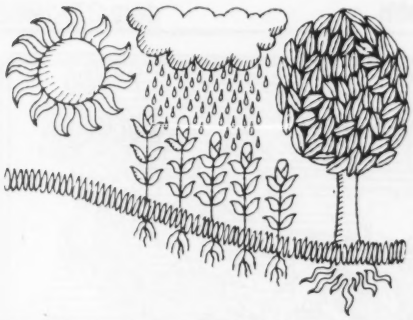
C55.209:69/30 Engin Z73-D-12



WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration, National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service and World Agricultural Outlook Board

Volume 69, No. 30 WASHINGTON, D.C. July 27, 1982

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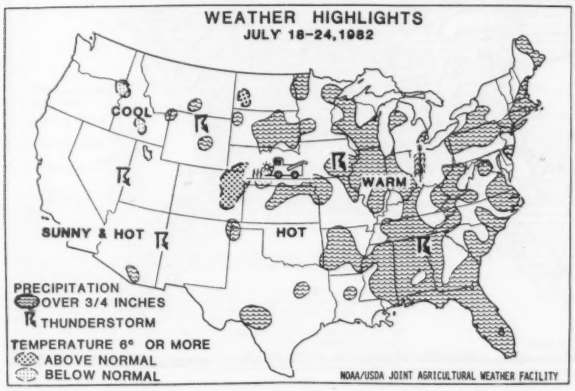
National Weather Summary

July 18-24



HIGHLIGHTS: Moderate temperatures and light to moderate precipitation, accumulating over several days, in most of the Corn Belt benefited corn which is in reproductive stage. Heavier showers in southeastern Iowa and adjacent sections of Illinois fell on ground that was already too wet. Warm, dry weather over much of the central and southern Plains allowed the winter wheat harvest to progress. Warm weather in spring wheat areas of the northern Plains caused rapid development and pushed the late crop closer to normal.

SUNDAY...Showers and thunderstorms covered much of the area east of the Mississippi River, and some storms extended through southern Iowa and into North Dakota. The heaviest rain fell in southeastern Iowa and adjacent sections of Illinois. A few thundershowers reached from central Kansas to central Arizona. Temperatures in the northern Plains were quite cool in the early morning but, later, warmed into the eighties. Temperatures in the Corn Belt generally remained in the high eighties, but a few areas in the southern portion reported temperatures in the nineties.

MONDAY...**The area of showers and thunderstorms** moved to a **line from Ohio to Alabama, southern** Louisiana, **eastward to the coast, and through the** Northeast. **A few light showers lingered through southern Iowa, central Illinois, and the upper Mississippi Valley. Widely scattered showers fell in New Mexico and the central Plains. Temperatures remained in the eighties over most of the Corn Belt but began to climb higher in the central Plains.**

TUESDAY...A cold front brought showers and thunderstorms to the New England coast and through southern New York. Thunderstorms were more scattered southward along the east coast and along the eastern gulf coast. Some heavy rain fell in the Mississippi Delta. Severe weather and some heavy showers covered the area from northern Missouri and eastern Nebraska through eastern North Dakota and Minnesota. A few showers continued in the Rockies, the northern High Plains, and northwestern Washington.

WEDNESDAY...Low pressure in the Atlantic kept showers active along the New England coast, and a cold front from the Southeast into Illinois triggered showers and thunderstorms from Florida to Wisconsin. Heavy rain, high winds, and hail were common from central Illinois into southeastern Wisconsin. Scattered thunderstorms with isolated heavy rain extended from Illinois to northern Kansas. A few showers fell in southeastern Texas and in Arizona and New Mexico. The northern Rockies had cool morning temperatures, but the afternoon highs reached 100° in northern Wyoming. Kansas also reported 100° readings, but most of the Corn Belt remained in the high eighties.

THURSDAY...Thunderstorms covered much of the Nation through the Plateau and Rockies and eastward. The heaviest showers fell in central Arkansas and from central Mississippi to northwestern Georgia. Low temperatures in the sixties, high temperatures in the low eighties, and a few light showers benefited the flowering plants in the Corn Belt.

(continued on backcover)

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OCT 28 1982

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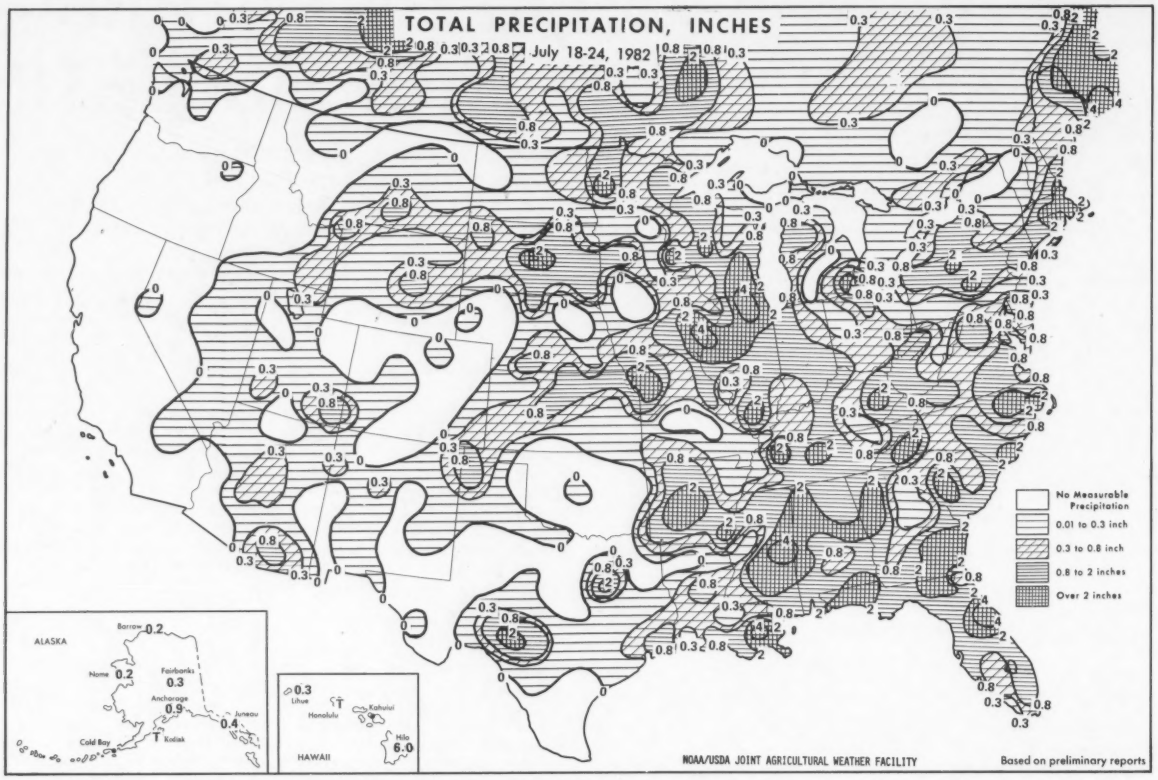
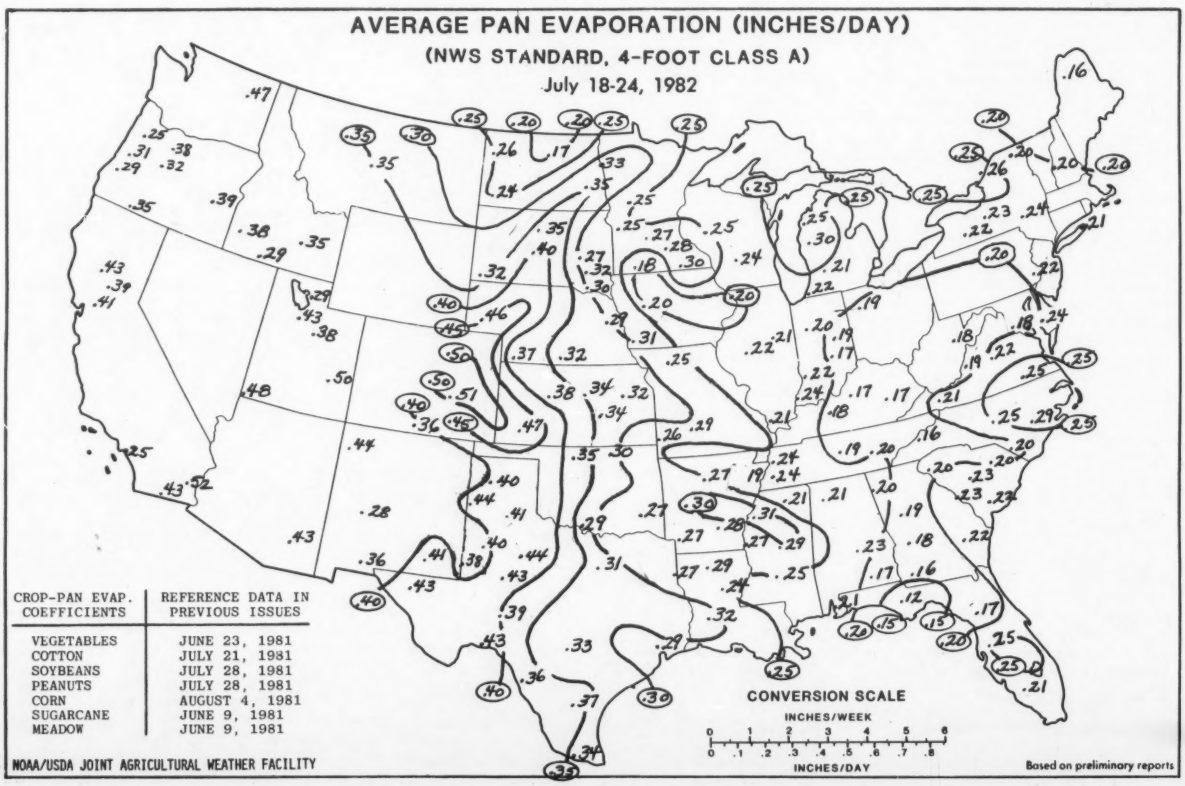
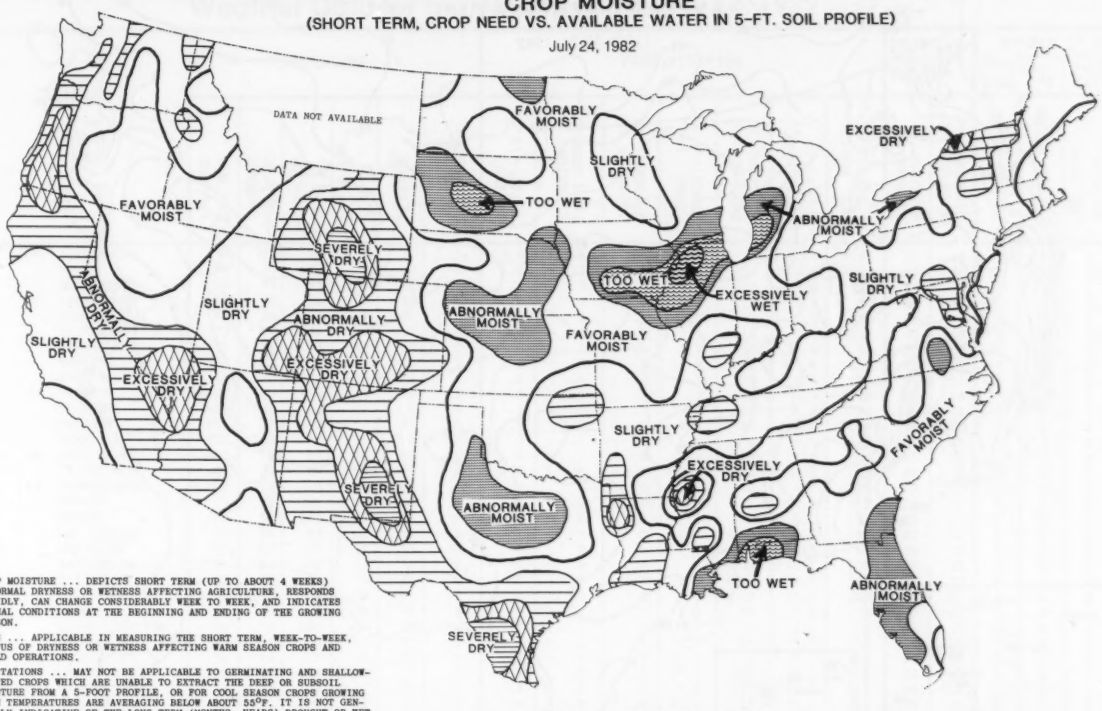

TOTAL PRECIPITATION, INCHES
July 18-24, 1982
No Measurable Precipitation
0.01 to 0.3 inch
0.3 to 0.8 inch
0.8 to 2 inches
Over 2 inches
ALASKA
Barrow 0.2
Nome 0.2
Fairbanks 0.3
Anchorage 0.9
Juneau 0.4
Cold Bay
Kodiak
HAWAII
Lihue 0.3
Honolulu
Kahului
Hilo 6.0
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


AVERAGE PAN EVAPORATION (INCHES/DAY)
(NWS STANDARD, 4-FOOT CLASS A)
July 18-24, 1982
CROP-PAN EVAP. COEFFICIENTS | REFERENCE DATA IN PREVIOUS ISSUES
VEGETABLES | JUNE 23, 1981
COTTON | JULY 21, 1981
SOYBEANS | JULY 28, 1981
PEANUTS | JULY 28, 1981
CORN | AUGUST 4, 1981
SUGARCANE | JUNE 9, 1981
MEADOW | JUNE 9, 1981
CONVERSION SCALE
INCHES/WEEK
INCHES/DAY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

CROP MOISTURE
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
July 24, 1982



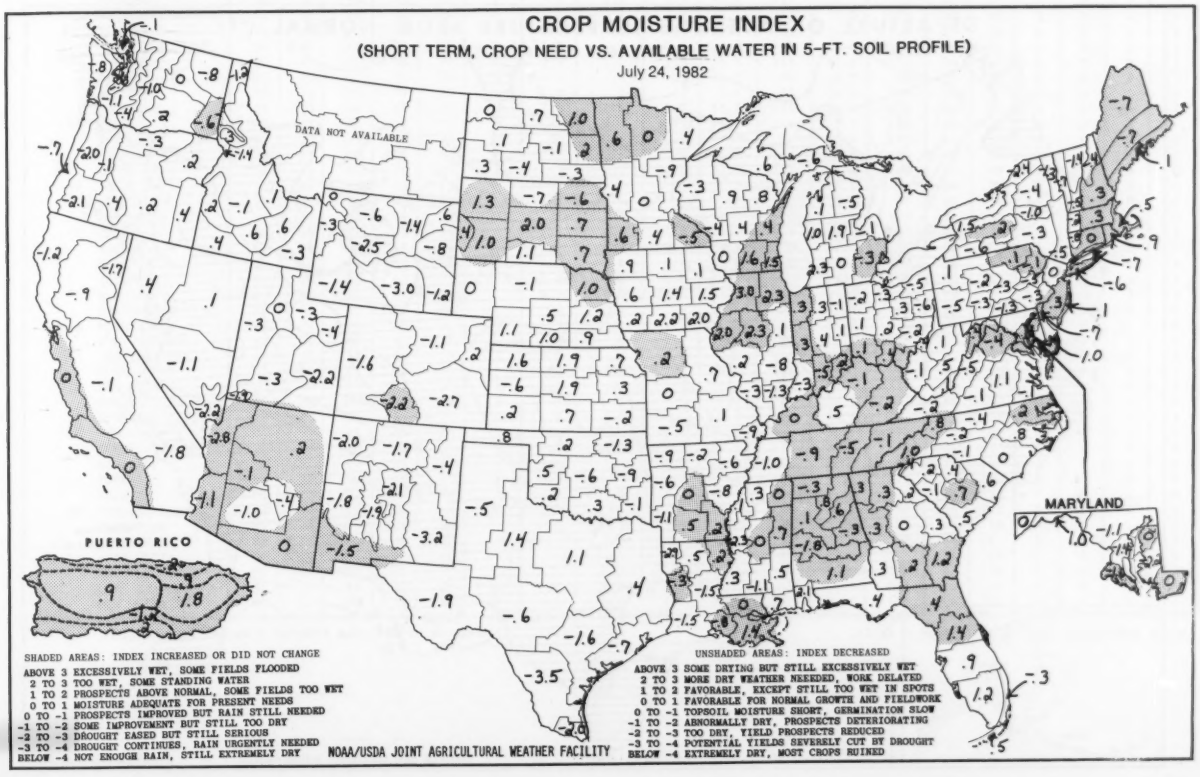
CROP MOISTURE ... DEPICTS SHORT TERM (UP TO ABOUT 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK, AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND ENDING OF THE GROWING SEASON.

USES ... APPLICABLE IN MEASURING THE SHORT TERM, WEEK-TO-WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS.

LIMITATIONS ... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW-ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A 5-FOOT PROFILE, OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55°F. IT IS NOT GENERALLY INDICATIVE OF THE LONG TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX (PALMER).

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

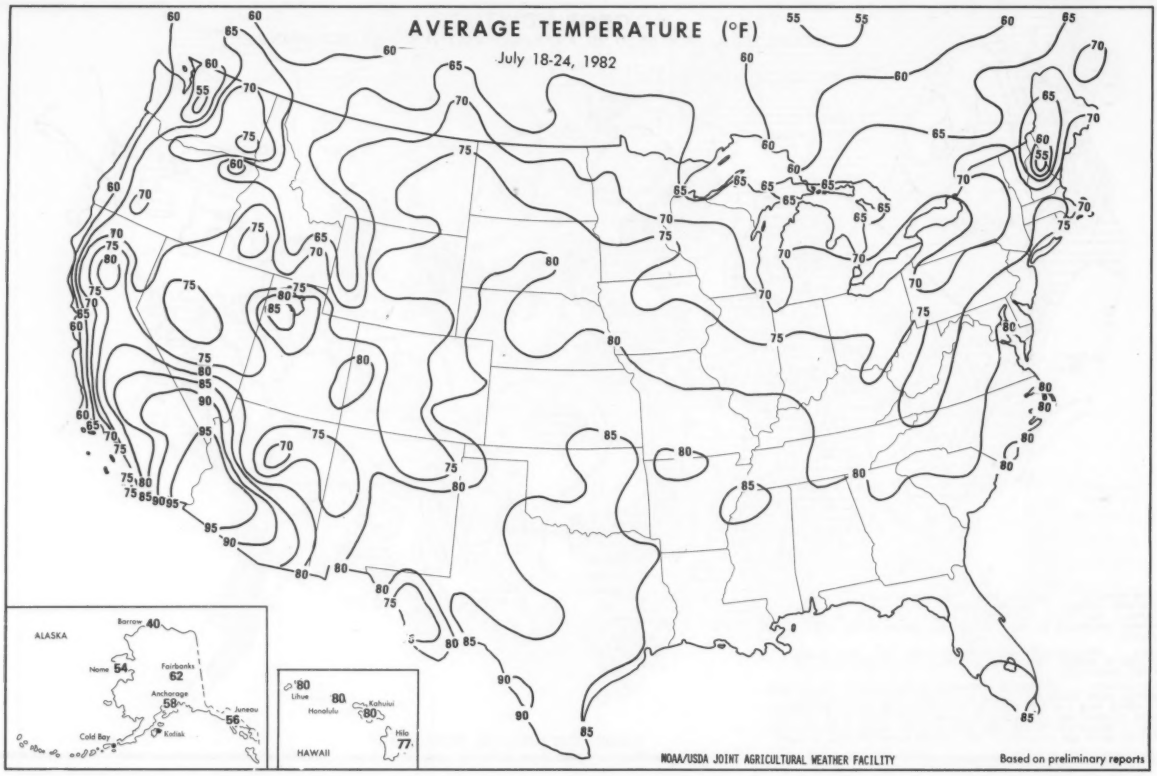
CROP MOISTURE INDEX
(SHORT TERM, CROP NEED VS. AVAILABLE WATER IN 5-FT. SOIL PROFILE)
July 24, 1982

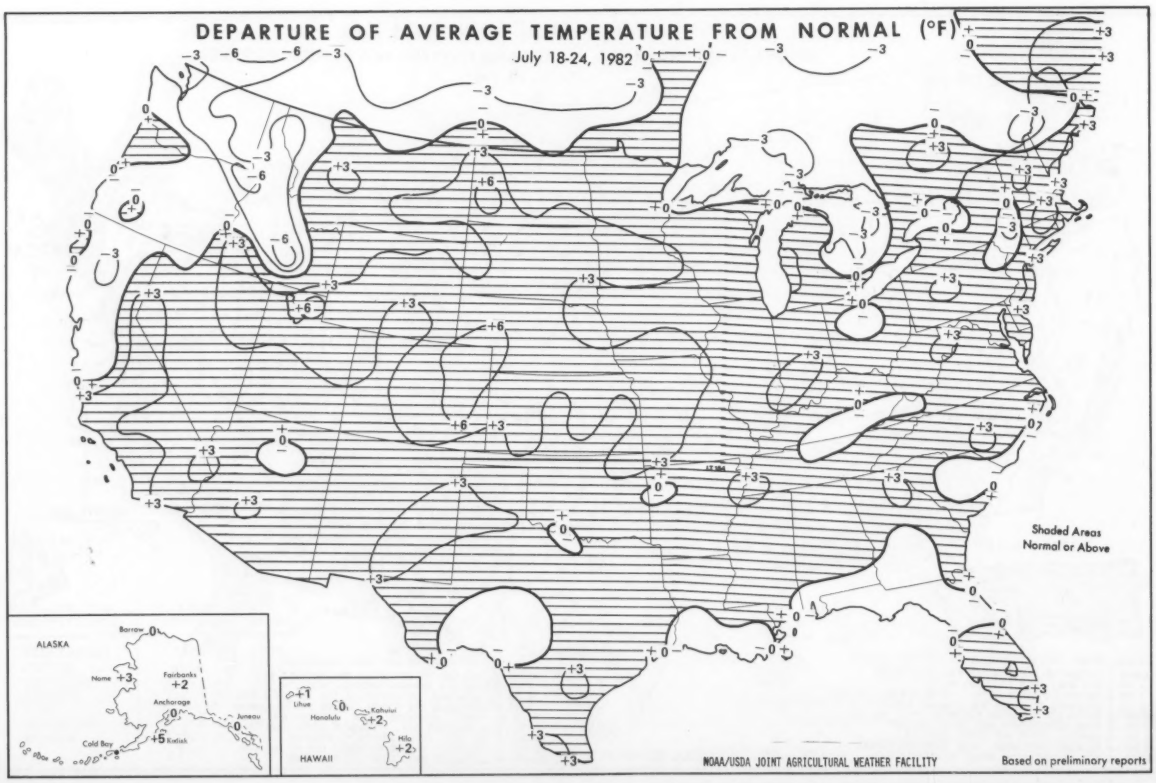


SHADED AREAS: INDEX INCREASED OR DID NOT CHANGE
ABOVE 3 EXCESSIVELY WET, SOME FIELDS FLOODED
2 TO 3 TOO WET, SOME STANDING WATER
1 TO 2 PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 TO 1 MOISTURE ADEQUATE FOR PRESENT NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL TOO DRY
-2 TO -3 DROUGHT EASED BUT STILL SERIOUS
-3 TO -4 DROUGHT CONTINUES, RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN, STILL EXTREMELY DRY

UNSHADED AREAS: INDEX DECREASED
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED, WORK DELAYED
1 TO 2 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT, GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY, PROSPECTS DETERIORATING
-2 TO -3 TOO DRY, YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT
BELOW -4 EXTREMELY DRY, MOST CROPS RUINED

NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY


AVERAGE TEMPERATURE (°F)
July 18-24, 1982
ALASKA
Barrow 40
Nome 54
Fairbanks 62
Anchorage 58
Juneau 56
Cold Bay
Kodiak
HAWAII
Lihue 80
Honolulu
Kahului 80
Hilo 77
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports


DEPARTURE OF AVERAGE TEMPERATURE FROM NORMAL (°F)
July 18-24, 1982
Shaded Areas
Normal or Above
ALASKA
Barrow 0
Nome +3
Fairbanks +2
Anchorage 0
Juneau 0
Cold Bay
Kodiak +5
HAWAII
Lihue +1
Honolulu 0
Kahului +2
Hilo +2
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY
Based on preliminary reports

Weather Data for the Week Ending July 24, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	90	71	94	70	81	1	3.0	1.8	1.3	16.6	198	42.9	137	97	58	3	0	5	2
MOBILE	88	73	89	72	80	-2	1.0	- 1.1	.5	21.7	160	46.4	122	85	58	0	0	4	0
MONTGOMERY	91	73	95	72	82	1	.7	- .5	.3	8.7	102	38.8	134	87	54	5	0	4	0
AK ANCHORAGE	63	52	71	46	58	0	.9	.4	.9	3.2	114	5.1	86	80	53	0	0	3	1
BARROW	44	35	57	31	40	0	.2	0	.1	.6	67	2.2	110	97	72	0	2	4	0
FAIRBANKS	73	52	81	47	62	2	.3	- .1	.1	3.6	116	6.6	120	88	43	0	0	5	0
JUNEAU	65	48	73	41	56	0	.4	- .7	.4	3.5	51	21.6	94	78	59	0	0	2	0
KODIAK	69	51	76	47	60	5	T	- .8	T	11.1	154	33.6	121	91	59	0	0	0	0
NOME	61	46	69	39	54	3	.2	- .4	.2	2.7	96	8.3	126	82	57	0	0	2	0
AZ PHOENIX	107	86	110	79	97	5	.1	- .1	.1	.3	50	3.6	120	49	18	7	0	2	0
PRESCOTT	89	67	92	61	78	2	.3	- .5	.2	.5	17	6.9	79	66	22	3	0	4	0
TUCSON	100	73	102	69	87	0	.9	.4	.9	1.6	84	5.0	106	69	23	7	0	4	1
YUMA	106	83	108	80	95	0	0	- .1	0	0	0	1.6	145	49	25	7	0	0	0
AR FORT SMITH	93	71	95	66	82	-1	0	- .7	0	7.7	115	27.4	109	91	47	7	0	0	0
LITTLE ROCK	94	73	99	68	84	2	2.6	1.9	2.6	8.4	145	33.2	118	88	58	5	0	2	1
CA BAKERSFIELD	103	75	106	69	89	4	0	0	0	0	+100	4.3	116	45	15	7	0	0	0
EUREKA	62	51	64	49	56	0	T	0	T	.8	114	24.4	110	94	72	0	0	0	0
FRESNO	100	66	102	62	83	1	0	0	0	.3	300	8.6	137	66	17	7	0	0	0
LOS ANGELES	79	64	83	62	72	3	0	0	0	0	+100	8.6	115	85	58	0	0	0	0
RED BLUFF	97	62	98	59	80	-3	0	0	0	1.8	360	12.8	99	70	18	7	0	0	0
SACRAMENTO	91	54	93	53	73	-2	0	0	0	.1	100	18.1	156	77	22	5	0	0	0
SAN DIEGO	80	69	84	65	74	4	0	0	0	0	+100	9.0	161	86	57	0	0	0	0
SAN FRANCISCO	69	53	73	51	61	-2	0	0	0	.1	100	22.6	200	85	53	0	0	0	0
CO DENVER	96	63	99	59	79	5	0	- .4	0	3.0	88	7.2	75	50	11	7	0	0	0
GRAND JUNCTION	98	70	101	67	84	5	T	- .1	T	.4	57	2.7	66	41	15	7	0	0	0
PUEBLO	99	66	99	61	82	5	0	- .4	0	2.5	89	5.5	80	54	15	7	0	0	0
CT BRIDGEPORT	84	66	92	60	75	1	.5	- .4	.5	13.3	242	30.7	150	86	53	2	0	1	0
HARTFORD	88	65	99	52	77	4	1.7	.9	1.7	15.4	248	32.6	146	80	42	2	0	1	1
DC WASHINGTON	90	73	97	65	82	3	.8	- .2	.7	7.9	113	23.3	111	80	47	4	0	2	1
FL APALACHICOLA	86	73	89	72	80	-2	.9	- 1.0	.4	10.0	83	31.4	110	99	79	0	0	5	0
DAYTONA BEACH	90	70	92	69	80	-1	4.5	3.0	1.7	14.6	124	33.6	139	97	62	5	0	7	3
JACKSONVILLE	91	73	95	71	82	1	.7	- .9	.5	12.9	105	27.7	101	97	64	4	0	6	1
KEY WEST	91	82	92	78	86	1	.5	- .4	.5	11.4	139	24.2	141	78	62	7	0	1	1
MIAMI	91	78	92	74	85	3	1.4	0	.8	16.9	115	38.3	130	84	57	7	0	3	2
ORLANDO	93	72	94	70	83	1	3.6	1.8	2.0	16.8	117	33.7	123	89	49	7	0	6	2
TALLAHASSEE	88	72	91	70	80	-1	1.4	- .6	.8	16.7	118	37.3	106	97	65	2	0	3	2
TAMPA	91	75	93	73	83	1	1.7	- .2	.9	21.3	160	32.8	126	97	59	6	0	3	2
WEST PALM BEACH	91	75	92	71	83	1	1.3	- .1	1.1	13.0	95	47.9	162	88	55	7	0	3	1
GA ATLANTA	89	70	92	69	80	2	2.2	1.1	1.3	11.5	147	35.6	121	94	53	4	0	5	1
AUGUSTA	94	73	97	71	84	3	.3	- .9	.2	6.3	79	24.2	95	90	50	7	0	2	0
MACON	92	73	95	71	82	1	.3	- .7	.3	5.2	67	28.2	106	94	57	5	0	2	0
SAVANNAH	89	73	92	71	81	0	3.5	1.7	2.2	18.7	146	34.5	119	93	63	3	0	4	2
HI HILO	83	71	87	69	77	2	6.0	3.7	3.1	29.6	204	111.4	161	96	72	0	0	6	4
HONOLULU	87	73	89	69	80	0	T	- .1	T	.7	78	20.8	165	83	57	0	0	1	0
KAHULUI	87	73	90	66	80	2	.1	0	.1	.7	117	21.1	194	78	54	1	0	1	0
LIHUE	86	74	87	70	80	1	.3	- .1	.1	3.8	127	41.9	188	91	69	0	0	3	0
ID BOISE	91	56	95	54	73	-2	0	0	0	1.7	131	7.2	99	64	20	4	0	0	0
LEWISTON	90	57	94	51	74	-1	0	- .1	0	1.1	48	6.5	87	64	19	4	0	0	0
POCATELLO	90	56	97	47	73	0	.4	.3	.4	1.2	75	7.6	110	73	26	3	0	1	0
IL CHICAGO	83	65	89	61	74	2	2.8	2.0	2.2	8.7	121	21.4	115	88	54	0	0	4	1
MOLINE	85	67	87	62	76	1	2.2	1.2	2.2	11.9	140	26.4	133	94	62	0	0	2	1
PEORIA	84	68	88	62	76	1	3.2	2.4	2.9	10.9	154	28.0	138	94	65	0	0	4	1
QUINCY	83	68	88	63	75	-3	2.0	1.0	1.6	11.9	143	26.9	—	100	71	0	0	4	1
ROCKFORD	84	65	86	61	74	1	4.5	3.6	2.5	12.9	163	26.0	129	91	61	0	0	3	2
SPRINGFIELD	86	69	91	63	77	1	.5	- .3	.3	5.4	73	21.4	109	94	67	2	0	4	0
IN EVANSVILLE	89	72	93	69	81	3	.5	- .4	.3	5.8	82	28.3	111	94	60	4	0	3	0
FORT WAYNE	83	66	86	63	74	1	.5	- .4	.4	7.2	100	25.4	120	91	54	0	0	3	0
INDIANAPOLIS	86	70	88	66	78	3	1.2	.4	.8	8.4	112	28.1	123	88	57	0	0	3	1
SOUTH BEND	81	66	84	63	74	1	.8	- .1	.6	9.9	143	25.2	128	95	61	0	0	3	1
IA DES MOINES	86	70	90	65	78	3	1.3	.7	1.2	8.3	106	25.8	140	83	57	1	0	4	1
SIOUX CITY	88	68	91	64	78	2	.2	- .5	.2	6.0	80	16.4	103	89	57	2	0	2	0
WATERLOO	85	66	86	61	75	2	.6	- .4	.6	7.3	81	20.9	108	88	59	0	0	1	1
KS CONCORDIA	94	73	99	69	83	5	1.1	.4	1.1	16.1	204	29.1	174	76	44	6	0	1	1
DODGE CITY	96	73	100	71	85	5	.3	- .4	.2	7.2	124	12.8	106	71	35	7	0	2	0
GOODLAND	96	64	97	61	80	4	.1	- .5	.1	12.7	254	19.3	191	78	24	7	0	1	0
TOPEKA	91	70	96	64	80	2	.2	- .7	.2	12.4	131	25.5	125	92	53	4	0	1	0
WICHITA	96	72	102	67	84	3	.2	- .8	.2	9.4	115	21.8	127	74	35	7	0	1	0
KY BOWLING GREEN	87	70	89	68	78	-1	1.0	.1	.8	6.3	88	26.5	91	100	62	0	0	3	1
LEXINGTON	87	70	88	69	78	2	.6	- .5	.5	7.1	86	22.9	85	88	58	0	0	2	1
LOUISVILLE	88	71	90	68	79	2	1.9	1.1	.9	8.0	108	26.1	98	91	60	2	0	4	1
LA ALEXANDRIA	94	74	96	72	84	1	.6	- .4	.5	7.6	95	25.1	—	87	46	7	0	2	0
BATON ROUGE	91	74	92	71	82	0	T	- 1.5	T	5.7	62	27.0	85	91	54	7	0	1	0
LAKE CHARLES	91	73	93	71	82	0	.2	- 1.3	.2	5.8	53	22.7	73	96	57	6	0	2	0
NEW ORLEANS	90	72	92	71	81	-1	4.4	2.8	1.8	15.6	147	35.6	110	98	64	6	0	5	4

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

Weather Data for the Week Ending July 24, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	SHREVEPORT	96	72	98	71	84	1	0	- .6	0	2.5	42	16.9	64	95	46	7	0	0	0
ME	CARIBOU	78	60	93	49	69	4	2.7	1.7	2.7	5.9	86	17.7	99	87	48	2	0	1	1
	PORTLAND	83	62	95	56	72	4	1.3	.8	.9	8.8	169	26.4	123	93	48	2	0	4	1
MD	BALTIMORE	89	68	96	61	78	1	.5	- .4	.3	7.3	104	23.2	105	84	49	2	0	4	0
	SALISBURY	88	69	94	60	79	1	.4	- .5	.4	6.4	93	22.6	97	97	57	3	0	2	0
MA	BOSTON	84	68	98	61	76	2	3.0	2.4	1.8	16.9	313	32.3	142	79	50	2	0	5	2
	CHATHAM	74	63	84	60	69	--	.8	--	.4	6.3	--	24.1	--	90	77	0	0	3	0
MI	ALPENA	81	51	89	45	66	0	.2	- .4	.2	4.7	96	12.2	87	92	43	0	0	1	0
	DETROIT	83	62	90	55	73	0	2.6	1.9	2.6	7.7	128	19.8	111	82	46	1	0	1	1
	FLINT	81	59	86	50	70	0	T	- .6	T	5.5	95	12.9	80	92	53	0	0	0	0
	GRAND RAPIDS	84	63	87	55	74	2	T	- .7	T	5.6	92	17.6	101	83	44	0	0	0	0
	HOUGHTON LAKE	80	56	83	49	68	2	1.1	.5	1.1	7.0	117	17.3	117	93	48	0	0	1	1
	LANSING	81	58	87	51	70	-2	.1	- .5	.1	5.6	97	13.6	79	99	58	0	0	1	0
	MARQUETTE	77	51	81	45	64	-1	T	- .8	T	4.8	64	18.2	100	96	47	0	0	0	0
	MUSKEGON	83	63	85	56	73	3	.6	.1	.5	5.3	113	18.1	113	90	51	0	0	2	1
	SAULT STE. MARIE	77	46	82	42	62	-2	.1	- .5	.1	3.1	55	16.5	109	93	47	0	0	1	0
MN	ALEXANDRIA	85	63	91	58	74	4	T	- .6	T	7.4	109	16.8	121	88	51	1	0	1	0
	DULUTH	76	55	80	47	65	-1	1.5	.8	1.2	7.1	95	17.9	110	86	54	0	0	3	1
	INT'L FALLS	80	53	91	45	67	1	.7	- .2	.4	4.9	66	12.4	89	98	51	1	0	3	0
	MINNEAPOLIS	88	66	91	62	77	5	T	- .8	T	2.6	36	13.9	94	80	42	3	0	1	0
	ROCHESTER	84	64	87	60	74	3	.4	- .4	.2	4.7	59	18.7	115	93	60	0	0	2	0
MS	GREENWOOD	93	72	96	68	82	0	T	- .9	T	7.2	104	31.7	--	93	54	6	0	1	0
	JACKSON	93	73	95	72	83	1	2.2	1.2	1.6	13.2	189	35.0	121	99	57	7	0	2	2
	MERIDIAN	93	72	95	71	83	2	2.8	1.7	1.9	10.8	135	34.3	112	91	54	7	0	4	2
MO	CAPE GIRARDEAU	91	72	97	70	82	2	.1	- .5	T	8.3	128	31.3	128	96	57	4	0	2	0
	COLUMBIA	90	71	95	66	81	3	T	- .8	T	9.5	120	23.7	114	90	51	4	0	1	0
	KANSAS CITY	91	72	96	66	81	3	.8	- .1	.8	11.0	118	26.7	128	88	51	4	0	1	1
	SAINT LOUIS	88	73	92	66	81	2	0	- .8	0	14.7	191	30.4	143	95	56	3	0	0	0
	SPRINGFIELD	94	68	98	61	81	3	.2	- .6	.2	7.8	98	22.3	98	94	44	5	0	1	0
MT	BILLINGS	90	63	97	55	76	3	.8	.6	.7	6.6	194	13.6	149	73	29	4	0	3	1
	GLASGOW	87	60	93	53	73	2	.4	.2	.3	2.3	62	8.1	127	75	29	1	0	2	0
	GREAT FALLS	87	54	94	51	71	0	0	- .2	0	3.6	84	12.3	122	63	23	2	0	0	0
	HAVRE	85	54	92	49	70	-1	T	- .3	T	1.2	32	9.0	120	74	20	2	0	0	0
	HELENA	89	58	94	54	74	4	T	- .1	T	3.4	100	8.7	121	59	21	4	0	0	0
	KALISPELL	80	46	84	37	63	-2	.2	0	.1	5.6	170	12.9	145	95	34	0	0	2	0
	MILES CITY	92	65	99	53	79	3	.2	- .1	.2	5.7	121	10.3	113	71	26	4	0	1	0
	MISSOULA	84	49	88	43	67	-1	0	- .1	0	2.8	100	11.1	148	87	26	0	0	0	0
NE	GRAND ISLAND	92	67	101	60	80	3	.3	- .3	.3	5.7	80	21.0	139	92	47	4	0	2	0
	LINCOLN	92	70	98	67	81	3	.4	- .3	.3	9.9	127	22.1	134	94	54	7	0	2	0
	NORFOLK	89	66	95	64	78	2	T	- .6	T	4.6	61	16.9	110	83	43	4	0	0	0
	NORTH PLATTE	94	63	98	54	79	4	T	- .6	T	4.1	64	12.8	102	89	37	6	0	1	0
	OMAHA	88	68	94	65	78	2	.4	- .3	.4	6.9	86	22.2	128	92	58	1	0	2	0
	SCOTTSBLUFF	96	61	101	54	79	5	.3	- .1	.3	8.1	184	12.5	128	69	19	7	0	1	0
	VALENTINE	95	63	100	54	79	4	.1	- .5	T	5.1	89	13.9	124	83	34	6	0	2	0
NV	ELY	90	53	95	47	71	3	.2	0	.2	.6	40	6.3	121	55	22	4	0	1	0
	LAS VEGAS	103	78	109	74	91	0	.1	- .1	T	.1	17	1.9	86	34	15	7	0	2	0
	RENO	94	54	97	47	74	4	T	- .1	T	1.0	167	4.2	95	65	16	5	0	1	0
	WINNEMUCCA	95	51	97	44	73	1	T	0	T	2.3	177	4.6	85	42	11	6	0	0	0
NH	CONCORD	83	59	95	48	71	1	1.3	.6	1.1	9.4	154	23.7	125	85	44	2	0	3	1
NJ	ATLANTIC CITY	89	69	97	62	79	3	1.5	.5	1.0	6.8	100	21.0	88	90	50	2	0	2	2
NM	ALBUQUERQUE	96	66	100	63	81	2	.4	.1	.3	.5	29	2.4	63	64	20	7	0	3	0
	CLOVIS	94	68	97	65	81	3	.2	- .5	.2	4.6	94	7.5	--	71	31	7	0	1	0
	ROSWELL	96	70	99	68	83	4	.1	- .4	.1	1.8	56	3.4	53	67	26	7	0	1	0
NY	ALBANY	84	57	96	48	70	-2	.1	- .6	.1	7.5	134	20.9	121	93	49	2	0	1	0
	BINGHAMTON	81	60	91	53	70	1	.6	- .3	.4	8.9	133	22.4	111	90	46	1	0	2	0
	BUFFALO	83	62	89	55	72	2	.4	- .3	.3	4.2	93	20.8	116	93	43	0	0	3	0
	NEW YORK	87	71	98	64	79	2	1.0	.1	.9	5.7	95	21.3	99	75	41	2	0	2	1
	ROCHESTER	83	63	92	55	73	1	1.6	.9	1.4	6.6	132	16.9	100	87	45	1	0	3	1
	SYRACUSE	83	58	93	53	71	-1	1.3	.6	1.1	7.6	136	19.3	100	99	53	1	0	2	1
NC	ASHEVILLE	85	66	87	65	76	2	3.5	2.4	2.6	10.5	131	31.8	126	100	60	0	0	4	1
	CHARLOTTE	86	72	89	70	79	0	.6	- .4	.3	7.6	121	26.7	113	95	62	0	0	2	0
	GREENSBORO	86	71	89	69	78	1	.9	- .1	.8	11.6	155	30.7	135	96	68	0	0	2	1
	HATTERAS	86	71	88	63	78	0	2.8	1.4	1.8	10.7	110	36.4	135	100	71	0	0	3	2
	NEW BERN	86	72	90	69	79	0	.6	- 1.2	.4	9.4	79	27.3	91	90	64	1	0	3	0
	RALEIGH	90	71	93	69	80	2	.5	- .7	.4	10.9	138	29.2	125	91	56	4	0	3	0
	WILMINGTON	87	72	90	69	79	-2	3.0	1.0	1.8	15.0	119	35.0	120	90	64	1	0	4	2
ND	BISMARCK	87	58	96	46	73	1	.2	- .2	.2	3.7	69	10.4	103	95	36	3	0	3	0
	FARGO	83	61	91	54	72	1	.5	- .2	.5	4.3	72	9.5	82	89	49	1	0	1	1
	GRAND FORKS	81	58	88	52	69	0	.7	.1	.3	6.1	107	12.0	109	98	60	0	0	3	0
	WILLISTON	90	61	97	50	75	4	T	- .4	T	3.4	67	9.3	97	73	34	4	0	0	0
OH	AKRON-CANTON	86	62	89	56	74	2	.1	- .7	.1	6.4	91	21.0	101	90	43	0	0	2	0
	CINCINNATI	87	69	92	65	78	2	1.5	.6	1.3	6.6	89	25.8	106	84	48	2	0	2	1
	CLEVELAND	84	63	93	57	74	2	.1	- .7	.1	6.2	100	19.5	98	87	45	1	0	1	0
	COLUMBUS	85	65	89	57	75	1	.6	- .4	.5	6.8	88	23.6	102	89	47	0	0	2	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

Weather Data for the Week Ending July 24, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	85	65	92	60	75	0	.5	- .3	.2	5.8	83	25.7	120	92	56	1	0	3	0
TOLEDO	83	62	87	57	73	0	.4	- .4	.3	4.1	64	16.5	92	94	55	0	0	2	0
YOUNGSTOWN	83	60	90	51	71	0	.2	- .7	.1	6.2	91	20.4	94	91	46	1	0	2	0
OK OKLAHOMA CITY	96	72	98	69	84	2	T	- .5	T	6.2	94	25.7	139	76	38	7	0	1	0
TULSA	97	76	100	66	86	4	0	- .7	0	5.5	71	20.6	96	79	39	7	0	0	0
OR ASTORIA	67	52	68	45	60	-1	T	- .1	T	1.9	59	40.8	124	89	60	0	0	0	0
BURNS	88	49	90	46	68	-2	0	- .1	0	1.2	100	6.2	93	--	--	1	0	0	0
MEDFORD	94	55	97	50	74	1	0	0	0	1.0	83	9.2	87	76	22	6	0	0	0
PENDLETON	87	57	92	47	72	-3	0	0	0	.8	62	5.5	80	53	18	4	0	0	0
PORTLAND	82	57	91	52	69	1	0	- .1	0	2.1	105	20.8	110	78	34	1	0	0	0
SALEM	85	51	89	42	68	1	0	- .1	0	1.8	100	21.3	100	86	30	0	0	0	0
PA ALLENTOWN	86	64	93	57	75	0	.4	- .6	.4	9.0	125	25.2	109	92	44	2	0	1	0
ERIE	80	61	87	54	70	1	1.4	.7	.8	8.7	134	22.1	113	81	54	0	0	3	1
HARRISBURG	87	66	92	59	82	6	.1	- .8	.1	8.2	88	24.4	103	87	40	2	0	1	0
PHILADELPHIA	87	69	94	63	78	1	.1	- .8	.1	7.3	104	27.5	130	88	48	2	0	3	0
PITTSBURGH	84	63	89	55	74	2	.2	- .6	.1	4.7	68	20.0	94	88	46	0	0	2	0
SCRANTON	83	61	92	54	72	-1	1.5	.6	1.5	9.5	136	23.9	126	92	53	2	0	2	1
RI PROVIDENCE	84	67	98	62	75	2	2.4	1.7	1.5	14.0	280	32.1	149	85	46	2	0	4	1
SC CHARLESTON	89	75	92	73	82	2	.8	- 1.1	.6	14.8	111	31.4	107	93	56	4	0	3	1
COLUMBIA	90	72	94	69	81	0	4.0	2.7	2.3	13.9	162	32.2	123	93	55	5	0	5	2
FLORENCE	88	72	91	70	80	-1	.7	- .8	.3	9.2	93	26.6	106	99	65	2	0	5	0
GREENVILLE	86	70	88	68	78	0	.4	- .5	.3	11.5	153	35.2	128	93	61	0	0	2	0
SD ABERDEEN	91	64	99	53	78	5	--	--	--	--	--	--	--	89	32	5	0	0	0
HURON	90	67	97	58	79	4	1.0	.5	.9	5.2	90	13.3	111	94	50	3	0	3	1
RAPID CITY	92	61	96	49	76	3	.7	.3	.3	4.1	73	13.4	112	81	36	5	0	3	0
SIOUX FALLS	87	66	92	57	76	2	.8	.2	.7	6.8	99	14.4	96	89	52	1	0	2	1
TN CHATTANOOGA	90	69	95	67	80	1	1.6	.4	.5	5.3	65	30.2	98	95	54	4	0	5	1
KNOXVILLE	87	69	92	68	78	0	.4	- .7	.4	7.0	90	33.1	119	99	58	1	0	2	0
MEMPHIS	93	78	97	75	86	4	.5	- .3	.5	9.9	148	36.9	125	85	55	5	0	1	1
NASHVILLE	88	71	92	69	79	-1	3.4	2.5	1.5	6.8	101	29.7	109	98	65	3	0	6	2
TX ABILENE	98	74	99	71	86	2	.1	- .4	.1	5.5	112	15.4	112	74	31	7	0	1	0
AMARILLO	95	67	98	65	81	2	.2	- .5	.2	5.8	102	9.3	85	70	28	7	0	2	0
AUSTIN	99	76	100	73	87	3	.1	- .3	.1	3.1	65	16.0	89	82	33	7	0	1	0
BEAUMONT	91	74	93	73	83	-1	1.3	- .1	1.3	12.3	124	36.0	124	93	59	6	0	1	1
BROWNSVILLE	97	76	98	74	86	2	T	- .2	T	.2	5	14.4	137	90	43	7	0	0	0
CORPUS CHRISTI	95	74	96	73	84	-1	0	- .4	0	.8	19	14.6	108	95	47	7	0	0	0
DEL RIO	99	75	101	72	87	0	.2	0	.2	3.3	114	8.1	89	76	30	7	0	1	0
EL PASO	99	70	101	67	85	3	.1	- .3	.1	1.1	55	2.2	59	62	22	7	0	2	0
FORT WORTH	98	76	100	74	87	2	0	- .4	0	6.6	140	28.8	152	74	34	7	0	0	0
GALVESTON	90	79	91	77	84	1	T	- .9	T	4.7	60	16.9	82	86	62	4	0	1	0
HOUSTON	96	73	97	72	85	1	.4	- .5	.3	5.1	64	19.2	76	92	46	7	0	2	0
LUBBOCK	95	70	96	68	83	2	0	- .5	0	6.2	127	14.2	133	66	29	7	0	0	0
MIDLAND	95	69	97	66	82	0	0	- .4	0	4.5	145	9.3	126	75	27	7	0	0	0
SAN ANGELO	96	70	97	67	83	-2	T	- .3	T	6.4	206	14.4	150	82	32	7	0	1	0
SAN ANTONIO	97	74	98	72	86	1	.1	- .2	.1	1.5	35	11.8	83	91	38	7	0	1	0
VICTORIA	97	75	99	74	86	1	T	- .6	T	.2	3	16.2	92	89	38	7	0	0	0
WACO	98	75	102	74	87	1	0	- .3	0	6.3	154	21.4	118	84	38	7	0	0	0
WICHITA FALLS	99	71	102	70	85	-1	T	- .4	T	8.0	145	28.9	182	87	34	7	0	1	0
UT BLANDING	92	59	98	55	78	4	.9	- .2	.8	1.1	52	5.7	90	65	22	5	0	2	1
CEDAR CITY	92	61	99	57	77	3	.6	.4	.5	1.0	91	7.7	154	56	20	6	0	2	1
SALT LAKE CITY	96	69	100	60	83	4	.1	- .1	T	1.8	95	9.3	103	38	17	7	0	2	0
VT BURLINGTON	83	57	96	47	70	0	T	- .8	T	5.3	80	16.3	96	89	37	1	0	0	0
VA NORFOLK	89	72	92	66	80	1	.7	- .6	.6	8.5	101	25.2	108	90	51	5	0	3	1
RICHMOND	89	71	94	65	80	2	1.7	.3	1.7	13.8	162	29.4	128	97	59	4	0	1	1
ROANOKE	87	67	90	64	77	1	1.4	.6	.8	9.1	140	26.6	127	93	54	1	0	2	2
WA COLVILLE	84	50	88	42	67	-2	0	- .1	0	3.1	141	11.4	127	71	35	0	0	0	0
QUILLAYUTE	66	50	74	44	58	-1	.2	- .3	.1	3.9	70	64.2	122	97	53	0	0	3	0
SEATTLE-TACOMA	71	54	82	51	62	-3	T	- .1	T	1.6	76	21.0	110	91	52	0	0	0	0
SPOKANE	84	54	87	44	69	-2	0	- .1	0	2.0	111	9.2	97	70	23	0	0	0	0
YAKIMA	87	50	93	42	68	-4	0	0	0	1.8	200	4.9	111	81	23	3	0	0	0
WV BECKLEY	80	63	84	60	71	1	.9	- .1	.6	8.4	108	24.6	98	98	64	0	0	4	1
CHARLESTON	87	67	92	66	77	2	.9	- .3	.6	9.6	125	27.6	115	100	60	2	0	3	1
HUNTINGTON	85	66	88	62	76	0	1.5	.5	1.0	9.0	127	26.8	115	100	64	0	0	3	1
PARKERSBURG	86	69	89	64	78	3	1.0	0	.7	7.6	90	22.4	86	92	54	0	0	2	1
WI GREEN BAY	80	58	84	55	69	-1	1.9	1.3	1.9	6.5	108	15.3	105	94	53	0	0	1	1
LA CROSSE	85	64	88	61	74	1	.5	- .4	.4	3.0	40	11.6	69	98	56	0	0	2	0
MADISON	82	58	84	53	70	-1	2.2	1.4	1.4	6.6	88	17.9	107	97	54	0	0	3	2
MILWAUKEE	77	61	85	58	69	-2	1.7	1.0	1.1	6.8	103	20.4	124	92	62	0	0	2	2
WAUSAU	81	59	83	56	70	1	T	- .8	T	10.9	140	21.6	126	89	47	0	0	1	0
WY CASPER	96	57	100	47	77	5	1.0	.8	1.0	5.5	229	10.2	140	58	13	7	0	2	1
CHEYENNE	91	58	94	55	74	4	0	- .4	0	5.3	139	10.0	109	56	16	5	0	0	0
LANDER	93	61	99	52	77	5	T	- .1	T	1.4	56	4.9	53	46	17	6	0	1	0
SHERIDAN	94	55	102	43	74	3	.1	- .1	.1	4.8	117	9.5	90	70	22	5	0	1	0
PR SAN JUAN	89	77	90	75	83	2	1.0	- .5	.7	7.0	64	28.5	103	88	64	2	0	4	1

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

CORRECTION: PREVIOUS WEEK

Weather Data for the Week Ending July 17, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL BIRMINGHAM	88	69	90	68	78	-2	3.7	2.5	2.0	13.6	189	39.9	133	98	59	2	0	6	2
MOBILE	88	72	90	70	80	-2	8.3	6.2	3.6	20.7	180	45.4	126	89	57	1	0	6	5
MONTGOMERY	90	72	92	70	81	0	1.3	.1	1.0	8.0	110	38.1	137	85	54	3	0	3	1
AK ANCHORAGE	61	49	63	45	55	-3	.6	.2	.5	2.3	100	4.2	78	82	52	0	0	3	1
BARROW	41	34	44	32	38	-1	0	- .2	0	.4	57	2.0	111	97	83	0	3	0	0
FAIRBANKS	72	53	78	47	63	2	.9	.4	.5	3.3	122	6.3	124	92	49	0	0	6	1
JUNEAU	59	51	63	49	55	-1	.7	- .3	.2	3.1	54	21.2	97	79	65	0	0	7	0
KODIAK	59	49	65	45	54	0	.3	- .5	.2	11.1	173	33.6	124	96	67	0	0	2	0
NOME	67	52	72	50	60	10	.3	- .3	.1	2.5	114	8.1	135	82	55	0	0	4	0
AZ PHOENIX	111	84	114	78	97	6	T	- .1	T	.2	50	3.5	125	36	13	7	0	0	0
PRESCOTT	94	65	99	60	80	4	0	- .7	0	.2	9	6.6	84	35	14	5	0	0	0
TUCSON	103	74	106	72	89	2	.1	- .4	.1	.7	50	4.1	98	51	15	7	0	2	0
YUMA	109	82	111	79	96	2	0	0	0	0	+100	1.6	160	41	14	7	0	0	0
AR FORT SMITH	91	71	93	66	81	-1	0	- .7	0	7.7	128	27.4	112	93	50	6	0	0	0
LITTLE ROCK	92	72	95	67	82	1	0	- .7	0	5.8	114	30.6	112	82	51	6	0	0	0
CA BAKERSFIELD	103	76	107	68	90	5	0	0	0	0	+100	4.3	116	42	17	7	0	0	0
EUREKA	67	54	71	49	60	4	T	0	T	.8	114	24.4	110	91	67	0	0	1	0
FRESNO	99	67	102	58	83	2	0	0	0	.3	300	8.6	137	66	18	7	0	0	0
LOS ANGELES	74	62	76	61	68	0	0	0	0	0	+100	8.6	115	87	63	0	0	0	0
RED BLUFF	96	67	103	58	81	-1	0	0	0	1.8	360	12.8	99	65	19	6	0	0	0
SACRAMENTO	90	59	97	52	75	0	0	0	0	.1	100	18.1	156	73	30	5	0	0	0
SAN DIEGO	75	66	77	65	70	1	0	0	0	0	+100	9.0	161	83	63	0	0	0	0
SAN FRANCISCO	74	53	84	50	64	1	T	0	T	.1	100	22.6	200	85	50	0	0	0	0
CO DENVER	88	56	95	53	72	-1	T	- .4	T	3.0	100	7.2	78	68	19	3	0	0	0
GRAND JUNCTION	98	66	100	62	82	3	T	- .1	T	.4	67	2.7	68	42	13	7	0	0	0
PUEBLO	92	62	98	57	77	1	0	- .4	0	2.5	104	5.5	85	73	21	4	0	0	0
CT BRIDGEPORT	84	67	90	62	76	2	1.7	.9	1.7	12.8	278	30.2	155	97	56	1	0	1	1
HARTFORD	90	65	96	60	78	5	T	- .7	T	13.7	254	30.9	144	87	41	4	0	1	0
DC WASHINGTON	90	75	94	74	83	4	.2	- .7	.1	7.1	118	22.5	113	83	51	4	0	3	0
FL APALACHICOLA	89	73	91	72	81	0	2.4	.6	1.5	9.1	90	30.5	114	99	76	4	0	4	2
DAYTONA BEACH	88	72	90	71	80	-1	.1	- 1.4	.1	10.1	98	29.1	128	94	63	2	0	1	0
JACKSONVILLE	92	73	95	72	82	1	.7	- 1.0	.3	12.2	114	27.0	104	98	66	5	0	4	0
KEY WEST	90	79	91	77	84	-1	.8	- .2	.7	10.9	149	23.7	145	83	61	4	0	2	1
MIAMI	90	77	91	75	83	1	1.0	- .6	.3	15.5	117	36.9	132	90	57	5	0	7	0
ORLANDO	92	74	94	74	83	2	.2	- 1.8	.1	13.2	105	30.1	117	87	51	6	0	2	0
TALLAHASSEE	91	72	93	71	81	0	3.9	1.8	1.6	15.3	125	35.9	108	98	59	6	0	5	2
TAMPA	91	75	93	73	83	1	3.0	1.1	1.7	19.6	172	31.1	129	94	55	6	0	4	2
WEST PALM BEACH	88	77	90	74	83	0	.5	- 1.0	.3	11.7	95	46.6	165	86	57	2	0	2	0
GA ATLANTA	87	69	94	67	78	0	1.3	.2	.6	9.3	139	33.4	118	98	57	1	0	5	1
AUGUSTA	91	73	93	71	82	2	1.4	.2	1.2	6.0	88	23.9	98	89	58	6	0	2	1
MACON	89	73	91	72	81	0	.8	- .3	.3	4.9	72	27.9	109	94	63	3	0	7	0
SAVANNAH	87	73	89	72	80	-1	1.3	- .6	.5	15.2	138	31.0	114	96	61	0	0	5	0
HI HILO	82	70	85	68	76	1	10.6	8.4	5.2	23.6	193	105.4	158	95	69	0	0	7	4
HONOLULU	87	74	89	72	81	1	T	- .1	T	.7	88	20.8	166	76	52	0	0	3	0
KAHULUI	89	74	92	73	81	3	.1	.1	.1	.6	120	21.0	194	76	49	2	0	3	0
LIHUE	85	75	87	73	80	2	.6	.2	.2	3.5	135	41.6	190	92	69	0	0	6	0
ID BOISE	84	53	93	47	68	-6	.2	.2	.2	1.7	131	7.2	99	77	23	3	0	1	0
LEWISTON	83	57	95	49	70	-4	T	- .1	T	1.1	50	6.5	88	84	30	3	0	1	0
POCATELLO	84	53	95	49	68	-3	T	0	T	.8	53	7.2	106	79	26	3	0	2	0
IL CHICAGO	87	66	93	56	76	4	.5	- .3	.4	5.9	92	18.6	104	91	50	2	0	2	0
MOLINE	85	67	91	59	76	2	.6	- .5	.4	9.7	129	24.2	128	93	58	1	0	5	0
PEORIA	86	68	92	59	77	2	.3	- .6	.2	7.7	122	24.8	127	89	59	1	0	3	0
QUINCY	83	68	88	62	76	-3	.2	- .8	.2	9.9	136	24.9	--	97	68	0	0	2	0
ROCKFORD	85	68	91	59	77	4	1.0	0	.5	8.4	120	21.5	111	91	58	1	0	3	0
SPRINGFIELD	88	69	95	59	78	2	.3	- .6	.2	4.9	74	20.9	111	91	60	3	0	2	0
IN EVANSVILLE	89	67	94	63	78	0	0	- .9	0	5.3	85	27.8	113	95	47	3	0	0	0
FORT WAYNE	86	64	91	59	75	2	T	- .9	T	6.7	106	24.9	123	91	50	2	0	1	0
INDIANAPOLIS	86	66	91	61	76	1	0	- .8	0	7.2	107	26.9	122	90	53	2	0	0	0
SOUTH BEND	82	67	89	61	75	3	2.8	2.0	1.5	9.1	152	24.4	130	94	60	0	0	3	2
IA DES MOINES	88	68	91	63	78	3	1.7	1.0	1.1	7.0	97	24.5	138	83	53	4	0	6	1
SIOUX CITY	86	65	92	59	75	0	1.0	.2	.8	5.8	85	16.2	106	89	56	1	0	2	1
WATERLOO	87	66	92	60	77	4	.5	- .6	.2	6.7	84	20.3	111	86	49	1	0	3	0
KS CONCORDIA	93	71	99	64	82	4	.1	- .7	.1	15.0	208	28.0	175	78	40	6	0	1	0
DODGE CITY	92	69	101	64	81	2	.6	- .1	.6	6.9	135	12.5	110	76	39	5	0	2	1
GOODLAND	87	61	98	54	74	-2	1.4	.8	.7	12.6	286	19.2	202	83	35	3	0	3	2
TOPEKA	90	71	95	63	80	2	.5	- .4	.4	12.2	142	25.3	130	88	53	4	0	2	0
WICHITA	92	71	100	64	82	1	T	- 1.0	T	9.2	128	21.6	133	79	38	4	0	0	0
KY BOWLING GREEN	85	66	88	63	76	-4	1.6	.7	1.6	5.3	84	25.5	90	100	53	0	0	1	1
LEXINGTON	86	66	89	60	76	0	1.1	0	1.0	6.5	90	22.3	86	88	50	0	0	3	1
LOUISVILLE	87	68	91	64	77	0	.7	- .2	.6	6.1	92	24.2	94	89	49	2	0	2	1
LA ALEXANDRIA	93	73	95	70	83	0	.7	- .4	.5	7.0	100	24.5	--	86	48	7	0	3	0
BATON ROUGE	91	72	93	70	81	-1	.8	- .8	.7	5.7	74	27.0	89	91	53	6	0	3	1
LAKE CHARLES	91	73	92	71	82	0	.4	- 1.2	.1	5.6	60	22.5	76	99	60	5	0	5	0
NEW ORLEANS	89	71	92	69	80	-2	3.7	2.1	1.6	11.2	124	31.2	101	100	68	2	0	6	3

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

+100 = NORMAL & ACTUAL NEAR THE SAME

CORRECTION: PREVIOUS WEEK

Weather Data for the Week Ending July 17, 1982

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
SHREVEPORT	94	72	95	70	83	0	.6	- .1	.3	2.5	47	16.9	65	96	49	7	0	3	0
ME CARIBOU	85	56	90	44	71	6	T	- .9	T	3.2	54	15.0	89	87	39	1	0	0	0
PORTLAND	82	59	90	55	70	2	T	- .6	T	7.5	160	25.1	120	93	49	1	0	1	0
MD BALTIMORE	89	70	94	69	80	3	.2	- .7	.2	6.8	111	22.7	107	88	55	3	0	1	0
SALISBURY	89	73	92	72	81	4	.1	- .8	.1	6.0	100	22.2	100	99	62	4	0	2	0
MA BOSTON	86	68	97	62	77	4	T	- .5	T	13.9	290	29.3	133	83	46	3	0	1	0
CHATHAM	76	62	84	59	69	—	0	—	0	5.5	—	23.3	—	98	76	0	0	0	0
MI ALPENA	84	55	94	43	70	4	.7	.2	.3	4.5	105	12.0	90	92	45	1	0	4	0
DETROIT	86	63	91	60	75	3	T	- .7	T	5.1	96	17.2	101	93	48	1	0	2	0
FLINT	85	63	88	57	74	4	1.4	.8	1.1	5.5	106	12.9	83	92	53	0	0	3	1
GRAND RAPIDS	85	64	91	59	75	3	1.3	.6	.6	5.6	104	17.6	105	82	50	2	0	4	2
HOUGHTON LAKE	80	60	86	49	70	4	.7	0	.4	5.9	109	16.2	114	93	58	0	0	4	0
LANSING	85	62	91	54	74	3	1.1	.5	1.0	5.5	106	13.5	81	99	54	2	0	2	1
MARQUETTE	78	57	85	53	67	3	2.6	1.7	1.8	4.8	72	18.2	105	98	60	0	0	5	1
MUSKEGON	82	64	90	58	73	3	.6	0	.4	4.7	112	17.5	113	93	56	1	0	2	0
SAULT STE. MARIE	75	53	83	39	64	0	1.2	.6	.5	3.0	60	16.4	112	93	58	0	0	6	0
MN ALEXANDRIA	82	63	85	56	73	3	1.2	.5	.8	7.4	119	16.8	126	97	55	0	0	3	1
DULUTH	74	57	80	54	66	0	.4	- .5	.3	5.6	82	16.4	105	90	56	0	0	3	0
INT'L FALLS	80	59	84	53	70	3	.1	- .8	.1	4.2	65	11.7	89	99	58	0	0	1	0
MINNEAPOLIS	87	66	91	61	76	4	T	- .8	T	2.6	40	13.9	99	84	42	2	0	0	0
ROCHESTER	83	63	87	57	73	3	1.3	.5	1.2	4.3	60	18.3	119	94	61	0	0	2	1
MS GREENWOOD	93	73	94	72	83	1	.5	- .5	.2	7.2	120	31.7	—	90	50	6	0	3	0
JACKSON	91	72	93	70	82	0	2.5	1.5	2.0	11.0	183	32.8	118	97	57	6	0	5	1
MERIDIAN	92	70	95	69	81	0	3.1	1.9	1.4	8.0	116	31.5	107	93	57	7	0	6	2
MO CAPE GIRARDEAU	90	68	95	63	79	0	.2	- .4	.2	8.2	139	31.2	131	97	48	3	0	1	0
COLUMBIA	87	68	92	63	78	1	.3	- .6	.3	9.5	134	23.7	119	93	57	3	0	1	0
KANSAS CITY	90	70	96	63	80	2	.2	- .8	.1	10.2	121	25.9	130	87	52	3	0	4	0
SAINT LOUIS	87	70	93	63	79	0	T	- .8	T	14.7	213	30.4	149	88	53	2	0	0	0
SPRINGFIELD	91	68	97	62	80	2	.4	- .4	.4	7.6	106	22.1	101	92	47	5	0	1	0
MT BILLINGS	82	55	89	45	68	-4	.1	- .1	.1	5.8	181	12.8	144	78	31	0	0	1	0
GLASGOW	81	56	89	45	69	-2	.7	.4	.5	1.9	54	7.7	124	76	31	0	0	4	0
GREAT FALLS	78	50	86	44	64	-5	.2	- .1	.1	3.6	88	12.3	124	78	29	0	0	3	0
HAVRE	77	54	86	46	65	-5	.2	- .1	.2	1.2	35	9.0	125	80	31	0	0	1	0
HELENA	79	50	85	40	65	-4	.4	.2	.3	3.4	103	8.7	123	77	30	0	0	4	0
KALISPELL	71	45	82	29	58	-7	.7	.5	.4	5.4	174	12.7	146	97	46	0	1	5	0
MILES CITY	84	60	91	48	72	-3	.1	- .3	.1	5.5	125	10.1	115	75	29	3	0	1	0
MISSOULA	76	48	85	37	62	-5	.3	.1	.1	2.8	104	11.1	150	98	39	0	0	5	0
NE GRAND ISLAND	88	65	96	58	76	0	T	- .7	T	5.4	83	20.7	143	90	44	2	0	1	0
LINCOLN	91	69	97	64	80	3	T	- .7	T	9.5	134	21.7	137	87	46	6	0	1	0
NORFOLK	86	64	92	58	75	-1	.6	- .1	.6	4.6	66	16.9	114	85	45	1	0	1	1
NORTH PLATTE	87	58	93	52	73	-2	T	- .7	T	4.1	71	12.8	107	89	36	2	0	2	0
OMAHA	86	69	92	61	78	2	.2	- .6	.2	6.5	89	21.8	131	86	57	1	0	2	0
SCOTTSBLUFF	86	56	94	50	71	-3	.6	.2	.6	7.8	195	12.2	130	75	27	3	0	1	1
VALENTINE	90	58	100	52	74	0	1.7	1.1	1.4	5.0	98	13.8	130	81	29	4	0	3	1
NV ELY	90	47	92	45	69	1	0	- .1	0	.4	31	6.1	122	48	13	5	0	0	0
LAS VEGAS	106	76	109	73	91	1	0	- .1	0	0	0	1.8	90	20	5	7	0	0	0
RENO	93	51	98	48	72	3	0	- .1	0	1.0	200	4.2	98	68	15	5	0	0	0
WINNEMUCCA	92	51	97	42	71	0	T	- .1	T	2.3	177	4.6	85	54	12	3	0	0	0
NH CONCORD	88	60	95	54	74	4	.1	- .6	.1	8.1	150	22.4	123	85	38	2	0	1	0
NJ ATLANTIC CITY	89	72	90	70	80	5	1.1	.2	1.1	5.3	91	19.5	86	92	58	4	0	1	1
NM ALBUQUERQUE	98	66	100	62	82	3	T	- .3	T	.1	7	2.0	57	50	14	7	0	0	0
CLOVIS	90	66	96	58	78	0	1.0	.4	1.0	4.4	105	7.3	—	77	37	4	0	1	1
ROSWELL	93	68	98	61	81	2	.8	.3	.8	1.7	63	3.3	56	78	29	6	0	1	1
NY ALBANY	87	61	93	54	74	2	.8	.1	.6	7.4	151	20.8	125	98	41	2	0	2	1
BINGHAMTON	83	65	88	60	74	5	.2	- .7	.2	8.3	143	21.8	114	92	48	0	0	2	0
BUFFALO	86	64	93	54	75	5	.4	- .2	.4	3.8	100	20.4	118	88	41	2	0	1	0
NEW YORK	86	71	93	68	79	2	T	- .8	T	4.7	92	20.3	98	87	51	2	0	0	0
ROCHESTER	86	65	94	54	75	4	.6	0	.4	5.0	116	15.3	94	85	42	2	0	2	0
SYRACUSE	85	61	91	50	73	1	.1	- .6	.1	6.3	129	18.0	97	94	47	2	0	1	0
NC ASHEVILLE	84	66	85	64	75	2	2.5	1.4	1.5	7.0	101	28.3	117	99	63	0	0	5	2
CHARLOTTE	86	70	88	69	78	0	1.6	.6	.9	7.0	132	26.1	115	96	61	0	0	3	2
GREENSBORO	85	70	88	70	78	1	1.3	.4	.9	10.7	165	29.8	137	99	71	0	0	3	1
HATTERAS	86	73	89	71	80	1	.3	- 1.1	.2	7.9	95	33.6	132	100	76	0	0	6	0
NEW BERN	84	72	88	71	78	-1	2.7	.9	.9	8.8	87	26.7	94	90	70	0	0	6	3
RALEIGH	88	71	92	70	79	2	.7	- .5	.5	10.4	155	28.7	130	92	60	2	0	5	1
WILMINGTON	86	72	88	70	79	-1	3.4	1.5	2.1	12.0	113	32.0	118	91	66	0	0	5	2
ND BISMARCK	84	56	89	52	70	-1	.5	0	.4	3.5	70	10.2	105	96	47	0	0	3	0
FARGO	83	61	87	54	72	1	.4	- .3	.3	3.8	72	9.0	83	91	50	0	0	5	0
GRAND FORKS	81	58	86	54	70	1	1.1	.5	.7	5.4	106	11.3	109	96	59	0	0	3	1
WILLISTON	84	58	89	52	71	1	.1	- .4	T	3.4	72	9.3	101	77	44	0	0	2	0
OH AKRON-CANTON	86	66	91	60	76	4	.2	- .7	.2	6.3	102	20.9	105	84	48	1	0	1	0
CINCINNATI	89	66	93	61	77	1	0	- 1.0	0	5.1	78	24.3	104	82	41	3	0	0	0
CLEVELAND	87	66	92	60	76	5	0	- .8	0	6.1	113	19.4	102	85	48	2	0	0	0
COLUMBUS	86	65	91	60	76	2	T	- 1.0	T	6.2	93	23.0	104	89	44	1	0	1	0

BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

CORRECTION: PREVIOUS WEEK

Weather Data for the Week Ending July 17, 1982

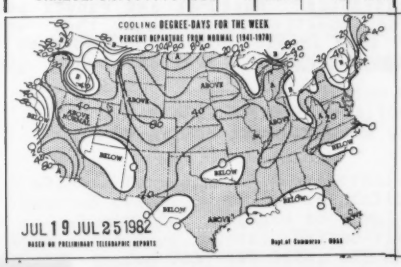
STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY, PERCENT		NUMBER OF DAYS			
																TEMPERATURE °F		PRECIPITATION	
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE May 30	PCT. NORMAL SINCE May 30	TOTAL, IN., SINCE Jan. 1	PCT. NORMAL SINCE Jan. 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
DAYTON	87	64	93	60	76	1	T	- .8	T	5.3	85	25.2	122	89	50	2	0	1	0
TOLEDO	86	63	92	58	75	3	.2	- .6	.2	3.7	66	16.1	94	95	50	1	0	1	0
YOUNGSTOWN	85	64	89	59	74	3	.1	- .8	.1	6.0	102	20.2	97	91	51	0	0	1	0
OK OKLAHOMA CITY	89	70	92	66	80	-2	T	- .6	T	6.2	102	25.7	143	88	51	2	0	0	0
TULSA	94	75	97	71	85	3	T	- .8	T	5.5	79	20.6	100	80	42	7	0	0	0
OR ASTORIA	68	51	75	49	60	0	.5	- .3	.3	1.9	61	40.8	124	92	61	0	0	2	0
BURNS	81	45	84	44	63	-6	0	- .1	0	1.2	109	6.2	94	--	--	0	0	0	0
MEDFORD	87	53	94	43	70	-2	0	- .1	0	1.0	83	9.2	87	84	27	3	0	0	0
PENDLETON	81	57	93	48	69	-5	.1	0	.1	.8	62	5.5	80	67	24	1	0	1	0
PORTLAND	80	57	90	49	68	2	.2	.1	.1	2.1	111	20.8	111	81	39	1	0	2	0
SALEM	80	52	89	41	66	-1	.2	.1	.2	1.8	106	21.3	100	89	37	0	0	1	0
PA ALLENTOWN	87	67	91	61	77	3	.1	- .9	T	8.6	139	24.8	112	95	51	2	0	2	0
ERIE	83	64	87	56	73	4	.2	- .6	.1	7.3	126	20.7	110	78	49	0	0	2	0
HARRISBURG	89	68	91	59	78	3	0	- .9	0	8.1	96	24.3	107	97	51	4	0	0	0
PHILADELPHIA	89	71	92	68	80	3	.4	- .5	.4	7.2	118	27.4	135	93	52	3	0	2	0
PITTSBURGH	85	64	89	60	74	2	.1	- .8	.1	4.5	74	19.8	97	90	53	0	0	1	0
SCRANTON	85	64	90	59	75	2	.6	- .4	.3	8.0	131	22.4	124	95	56	1	0	2	0
RI PROVIDENCE	86	67	93	63	77	5	T	- .6	T	11.6	270	29.7	142	85	44	1	0	0	0
SC CHARLESTON	88	73	90	72	81	0	1.1	- .8	.6	14.0	123	30.6	112	94	62	1	0	5	1
COLUMBIA	88	71	91	69	80	-1	3.5	2.2	2.5	9.9	136	28.2	113	94	60	2	0	5	2
FLORENCE	86	71	89	71	79	-1	1.8	.3	.7	8.5	101	25.9	109	100	62	0	0	4	1
GREENVILLE	85	69	87	68	77	-1	2.2	1.2	.9	11.1	168	34.8	131	95	63	0	0	4	2
SD ABERDEEN	93	61	108	53	77	5	--	--	--	--	--	--	--	89	34	0	0	0	0
HURON	89	62	92	56	75	2	1.8	1.3	1.4	4.2	79	12.3	107	96	45	4	0	2	1
RAPID CITY	86	55	93	47	71	-2	.1	- .4	T	3.4	65	12.7	109	82	35	2	0	4	0
SIOUX FALLS	84	63	90	56	74	0	.6	- .1	.3	6.0	95	13.6	94	89	52	1	0	3	0
TN CHATTANOOGA	89	68	92	64	79	0	.1	- 1.2	.1	3.7	53	28.6	96	92	48	2	0	2	0
KNOXVILLE	86	68	88	63	77	-1	.4	- .7	.2	6.6	99	32.7	123	99	56	0	0	3	0
MEMPHIS	93	76	94	72	84	3	.2	- .7	.2	9.4	159	36.4	126	83	47	7	0	1	0
NASHVILLE	90	69	93	63	79	0	T	- .9	T	3.4	59	26.3	100	95	45	4	0	2	0
TX ABILENE	92	72	97	68	82	-2	1.5	.9	1.3	5.4	123	15.3	116	84	41	6	0	2	1
AMARILLO	91	66	98	59	79	0	.6	0	.6	5.6	112	9.1	89	74	34	5	0	2	1
AUSTIN	97	75	98	73	86	1	0	- .4	0	3.0	68	15.9	91	86	37	7	0	0	0
BEAUMONT	92	74	94	72	83	0	1.5	.1	1.4	11.0	129	34.7	125	93	57	7	0	3	1
BROWNSVILLE	97	76	98	73	87	3	0	- .2	0	.2	6	14.4	140	89	43	7	0	0	0
CORPUS CHRISTI	95	74	95	70	84	-1	0	- .4	0	.8	21	14.6	111	97	49	7	0	0	0
DEL RIO	98	75	99	74	86	-1	0	- .2	0	3.1	115	7.9	89	78	30	7	0	0	0
EL PASO	100	70	103	63	85	2	.7	.4	.7	1.0	63	2.1	64	62	19	7	0	3	1
FORT WORTH	94	75	96	72	84	-1	.1	- .4	.1	6.6	153	28.8	156	83	42	7	0	1	0
GALVESTON	88	79	91	78	84	1	.2	- .8	.2	4.7	68	16.9	86	86	68	1	0	2	0
HOUSTON	95	73	99	70	84	1	3.6	2.7	3.4	4.7	66	18.8	77	91	47	7	0	2	1
LUBBOCK	91	67	95	60	79	-1	.7	.2	.7	6.2	141	14.2	139	80	37	5	0	1	1
MIDLAND	94	67	97	64	80	-2	2.3	1.8	2.3	4.5	167	9.3	133	90	34	6	0	1	1
SAN ANGELO	94	71	96	65	82	-3	T	- .2	T	6.4	229	14.4	155	83	37	6	0	1	0
SAN ANTONIO	96	74	97	70	85	0	0	- .4	0	1.4	35	11.7	84	91	36	7	0	0	0
VICTORIA	96	74	98	72	85	1	.1	- .6	.1	.2	4	16.2	95	89	43	7	0	1	0
WACO	95	75	98	71	85	-1	2.3	2.0	2.3	6.3	166	21.4	120	85	45	7	0	2	1
WICHITA FALLS	93	69	98	63	81	-4	T	- .5	T	8.0	157	28.9	186	91	42	6	0	1	0
UT BLANDING	91	59	95	55	75	1	.1	- .1	.1	.2	20	4.8	92	33	10	6	0	1	0
CEDAR CITY	93	59	95	53	76	2	0	- .2	0	.4	44	7.1	148	32	11	7	0	0	0
SALT LAKE CITY	92	63	96	56	78	0	0	- .1	0	1.7	100	9.2	105	51	18	5	0	0	0
VT BURLINGTON	87	60	92	53	74	4	T	- .8	T	5.3	91	16.3	101	88	38	1	0	1	0
VA NORFOLK	86	73	88	72	80	1	.9	- .4	.6	7.8	110	24.5	111	96	66	0	0	5	1
RICHMOND	86	72	92	71	79	1	4.7	3.4	2.7	12.1	170	27.7	128	100	73	1	0	4	3
ROANOKE	86	68	90	67	77	2	.4	- .4	.3	7.7	135	25.2	125	96	60	1	0	3	0
WA COLVILLE	73	52	87	41	62	-6	.4	.3	.3	3.1	148	11.4	128	85	54	0	0	4	0
QUILLAYUTE	66	47	75	44	57	-2	.8	.2	.3	3.7	73	64.0	122	97	61	0	0	3	0
SEATTLE-TACOMA	70	53	80	49	62	-3	.2	.1	.2	1.6	80	21.0	111	87	49	0	0	2	0
SPOKANE	76	53	89	45	65	-5	.3	.2	.2	2.0	118	9.2	98	91	35	0	0	2	0
YAKIMA	80	52	91	41	66	-5	T	0	T	1.8	200	4.9	111	80	31	1	0	1	0
WV BECKLEY	80	63	82	58	72	2	.6	- .4	.5	7.5	110	23.7	99	97	57	0	0	3	1
CHARLESTON	88	67	93	64	78	3	.1	- 1.1	.1	8.7	134	26.7	118	100	50	3	0	1	0
HUNTINGTON	85	65	91	61	75	0	T	- 1.0	T	7.5	123	25.3	113	100	57	1	0	0	0
PARKERSBURG	86	68	90	63	77	3	0	- 1.1	0	6.6	89	21.4	86	93	48	1	0	0	0
WI GREEN BAY	84	63	91	57	74	5	.7	0	.6	4.6	85	13.4	96	98	58	1	0	3	1
LA CROSSE	86	66	91	60	76	3	.8	- .1	.5	2.5	38	11.1	70	100	57	2	0	3	0
MADISON	83	63	91	57	73	3	.2	- .7	.1	4.4	66	15.7	99	93	59	1	0	2	0
MILWAUKEE	85	66	92	63	76	6	.4	- .4	.4	5.1	86	18.7	118	93	54	1	0	1	0
WAUSAU	83	63	86	56	73	4	2.0	1.1	1.3	10.9	156	21.6	132	96	53	0	0	3	1
WY CASPER	91	51	97	43	71	0	.2	0	.2	4.5	205	9.2	130	76	17	6	0	2	0
CHEYENNE	83	52	89	46	68	-2	.2	- .2	.2	5.3	156	10.0	114	85	29	0	0	2	0
LANDER	89	54	92	45	71	0	T	- .1	T	1.4	58	4.9	53	59	18	3	0	1	0
SHERIDAN	85	50	91	38	67	-3	T	- .2	T	4.7	121	9.4	91	76	29	2	0	1	0
PR SAN JUAN	90	78	91	77	84	3	.1	- 1.3	.1	6.0	64	27.5	105	88	58	5	0	3	0

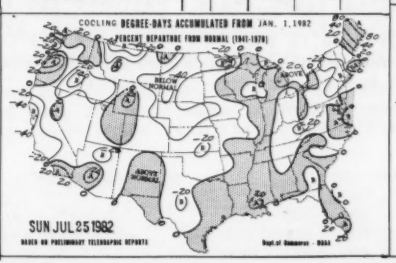
BASED ON PRELIMINARY REPORTS AND 1941-70 NORMALS

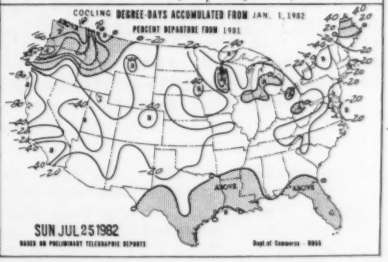
HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JUL. 25, 1982.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JAN. 1, 1982

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL DEPARTURE*	SEASONAL DEPARTURE FROM 1981
ALA.					
BIRMINGHAM	112	7	1028	18	153
MOBILE	109	10	1429	23	20
MONTGOMERY	118	6	1314	113	40
ARIZ.					
FLAGSTAFF	7	14	46	26	135
PHOENIX	219	30	2174	398	367
TUCSON	152	2	1318	129	286
WINSLOW	95	3	492	116	241
YUMA	221	11	2097	19	399
ARK.					
FORT SMITH	117	8	908	145	174
LITTLE ROCK	125	6	1100	78	102
CALIF.					
BAKERSFIELD	177	37	1409	327	65
EUREKA	0	0	0	0	4
FRESNO	129	15	795	35	518
LOS ANGELES	51	20	128	70	357
RED BLUFF	105	21	770	175	441
SAN DIEGO	70	34	321	87	346
SAN FRANCISCO	0	7	25	18	71
STOCKTON	82	2	524	81	500
COLO.					
DENVER	105	42	265	39	231
GRAND JUNCTION	139	37	622	25	158
PUEBLO	119	35	492	34	268
CONN.					
BRIDGEPORT	65	1	266	78	118
HARTFORD	70	14	327	10	157
DEL.					
WILMINGTON	94	17	568	55	47
D.C.					
WASHINGTON	111	13	791	46	194
FLA.					
APALACHICOLA	105	13	1330	54	7
DAYTONA BEACH	107	5	1482	0	11
FORT MYERS	139	13	2417	499	265
JACKSONVILLE	121	9	1506	151	2
KEY WEST	150	10	2612	277	500
LAKELAND	124	5	1758	19	203
MIAMI	139	17	2513	424	246
ORLANDO	122	4	1918	241	174
TALLAHASSEE	105	7	1378	3	66
TAMPA	128	5	1766	1	186
WEST PALM BEACH	128	9	2291	352	259
GA.					
ATLANTA	105	14	971	130	235
AUGUSTA	132	21	1109	21	35
MACON	122	4	1237	28	114
SAVANNAH	114	2	1315	58	156
IDAHO.					
BOISE	68	9	236	102	16
LEWISTON	68	0	338	29	139
POCATELLO	60	4	147	68	29
ILL.					
CAIRO	123	11	1004	10	85
CHICAGO	72	20	386	40	37
MOLINE	78	8	457	38	30
PEORIA	80	8	531	1	74
ROCKFORD	71	15	451	67	32
SPRINGFIELD	86	6	633	18	117
IND.					
EVANSVILLE	109	18	769	4	76
FORT WAYNE	64	5	406	3	24
INDIANAPOLIS	89	19	545	5	61
SOUTH BEND	62	6	390	23	28
IOWA.					
BURLINGTON	85	8	502	40	32
DES MOINES	94	17	495	6	156
DUBUQUE	63	12	340	15	8
SIOUX CITY	100	23	414	104	148
KANS.					
CONCORDIA	126	28	645	20	120
DODGE CITY	137	32	669	61	334
GOODLAND	111	30	355	116	145
TOPEKA	97	1	605	123	235
WICHITA	129	17	703	172	317
KY.					
LEXINGTON	95	14	607	48	22
LOUISVILLE	101	17	658	25	191
LA.					
BATON ROUGE	124	5	1707	298	257
LAKE CHARLES	122	3	1468	2	35
NEW ORLEANS	116	3	1677	223	36
SHREVEPORT	138	8	1372	46	115
MAINE.					
CARIBOU	22	1	134	60	39
PORTLAND	44	16	151	33	18
MD.					
BALTIMORE	90	6	574	9	124
MASS.					
BOSTON	70	7	342	2	177
MICH.					
ALPENA	29	8	126	21	44
DETROIT	50	6	302	47	60
FLINT	33	5	297	61	27
GRAND RAPIDS	64	15	343	34	14
HOUGHTON LAKE	26	8	146	16	18
LANSING	36	9	304	17	4
MARQUETTE	16	0	78	11	29
MUSKEGON	62	20	254	20	18
S. STE. MARIE	1	13	36	19	15
MINN.					
DULUTH	17	4	45	37	48
INTERNATL FALLS	28	7	98	4	55
MINNEAPOLIS	91	36	370	45	94
ROCHESTER	73	31	290	20	45
ST. CLOUD	60	18	225	11	3
MISS.					
JACKSON	125	6	1417	154	38
MERIDIAN	125	13	1326	105	57
MO.					
COLUMBIA	107	16	577	108	154
KANSAS CITY	108	17	621	55	133
ST. LOUIS	109	11	759	50	74
SPRINGFIELD	109	16	740	26	106
MONT.					
BILLINGS	79	23	191	48	144
GLASGOW	59	10	183	30	39
GREAT FALLS	48	8	92	60	7
HAVRE	39	7	116	83	10
HELENA	68	36	122	5	16
KALISPELL	1	13	29	19	3
MILES CITY	92	16	301	67	48
MISSOULA	15	6	68	21	17
NEBR.					
GRAND ISLAND	111	27	426	123	204
LINCOLN	116	25	569	156	207
NORFOLK	99	22	388	109	221
NORTH PLATTE	108	32	346	74	65
OMAHA	102	11	494	138	145
VALENTINE	109	39	364	19	62
NEV.					
ELY	43	18	81	11	105
LAS VEGAS	176	3	1426	94	504
RENO	65	28	191	24	63
WINNEMUCCA	63	14	202	9	99
N.H.					
CONCORD	32	10	177	10	102
N.J.					
ATLANTIC CITY	84	7	516	71	3
TRENTON	79	1	456	55	94
N.MEX.					
ALBUQUERQUE	115	17	719	14	111
ROSWELL	122	24	936	72	74
N.Y.					
ALBANY	28	28	207	117	68
BINGHAMTON	32	3	191	9	63
BUFFALO	45	3	239	12	55
NEW YORK	86	2	431	105	228
ROCHESTER	47	2	264	21	75
SYRACUSE	31	18	196	92	222
N.C.					
ASHEVILLE	77	14	563	105	17
CHARLOTTE	99	1	892	39	27
GREENSBORO	94	6	702	40	165
HATTERAS	93	0	788	54	107
RALEIGH	108	17	888	135	75
WILMINGTON	102	9	935	97	123
N.DAK.					
BISMARCK	63	14	157	96	49
FARGO	55	9	196	51	24
WILLISTON	77	35	249	32	67
OHIO.					
AKRON-CANTON	58	9	373	30	16
CINCINNATI	88	11	550	25	40
CLEVELAND	55	6	361	31	17
COLUMBUS	69	6	425	18	27
DAYTON	65	5	459	47	75
TOLEDO	47	9	323	46	32
YOUNGSTOWN	37	5	268	12	138
OKLA.					
OKLAHOMA CITY	132	13	809	143	304
TULSA	141	16	1143	147	121
OREG.					
ASTORIA	0	6	6	8	6
BURNS	18	17	44	97	14
MEDFORD	20	14	279	24	27
PENDLETON	57	12	281	40	15
PORTLAND	36	8	126	61	9
SALEM	24	3	154	48	107
PA.					
ALLENTOWN	63	5	333	89	20
ERIE	34	1	232	42	7
HARRISBURG	84	3	379	132	12
PHILADELPHIA	84	0	518	66	8
PITTSBURGH	59	4	314	45	4
SCRANTON	42	14	261	69	130
R.I.					
PROVIDENCE	62	6	296	33	177
S.C.					
CHARLESTON	123	17	1136	24	223
COLUMBIA	114	2	1050	89	128
GREENVILLE	92	2	802	50	240
S.DAK.					
ABERDEEN	94	38	312	17	165
HURON	107	40	367	31	182
RAPID CITY	80	18	188	132	86
SIOUX FALLS	92	29	320	68	214
TENN.					
CHATTANOOGA	105	7	864	23	102
KNOXVILLE	96	4	723	14	127
MEMPHIS	144	25	1269	164	175
NASHVILLE	104	1	878	37	48
TEXAS.					
ABILENE	149	16	1286	18	100
AMARILLO	113	15	669	89	309
AUSTIN	159	19	1700	136	117
BEAUMONT	142	16	1454	24	45
BROWNSVILLE	152	13	2489	376	326
CORPUS CHRISTI	136	4	1872	21	106
DEL RIO	158	4	1804	70	237
EL PASO	138	19	1223	45	152
FORT WORTH	157	17	1326	15	33
GALVESTON	142	16	1564	35	9
HOUSTON	142	13	1749	223	51
LUBBOCK	124	19	853	63	256
MIDLAND	120	2	1161	38	4
SAN ANGELO	142	11	1147	326	2
SAN ANTONIO	148	8	1567	32	26
VICTORIA	153	14	1795	138	130
WACO	157	10	1520	38	44
WICHITA FALLS	141	7	1141	213	258
UTAH					
SALT LAKE CITY	126	35	446	7	94
VT.					
BURLINGTON	30	12	194	24	125
VA.					
LYNCHBURG	85	8	569	31	145
NORFOLK	102	4	745	10	191
RICHMOND	101	10	784	44	115
ROANOKE	81	6	559	9	69
WASH.					
QUILLAYUTE	0	2	10	2	11
SEATTLE-TACOMA	10	4	20	6	48
SPOKANE	54	8	206	24	140
WALLA WALLA	80	4	436	19	156
YAKIMA	29	20	221	34	55
W. VA.					
BECKLEY	45	3	241	27	65
CHARLESTON	50	2	266	45	52
HUNTINGTON	74	3	472	142	167
PARKERSBURG	90	14	618	47	41
WIS.					
GREEN BAY	38	3	210	3	24
LACROSSE	74	14	387	7	24
MADISON	40	5	210	40	97
MILWAUKEE	30	12	205	14	4
WYO.					
CASPER	88	38	213	2	65
CHEYENNE	69	34	124	40	65
LANDER	90	41	220	44	48
SHERIDAN	71	22	155	56	57







National Agricultural Summary

JULY 19-25

HIGHLIGHTS: Mostly open weather during the week permitted winter wheat harvest to progress rapidly. Producers spent long hours in the fields, combining a large portion of their acreage. Rainfall in the Southeast benefited crops and helped restore soil moisture supplies. Hot weather in most areas of the Nation promoted good growth of crops and helped push small grains and vegetables to maturity. Farmers had 4 to 7 days suitable for fieldwork in nearly all areas of the Nation. Soil moisture supplies were adequate to surplus in some areas of the Southeast and in Iowa and Wisconsin due to heavy rainfall. Parts of the Northeast, South Central and Western States reported short to adequate supplies. Elsewhere, soil moisture was adequate. Winter wheat harvest advanced to 78% completion, about 4 points behind last year and the average. Spring wheat was 90% headed. Corn was silking on 48% of the acreage and reached the dough stage on 12% of the acreage. In the South, limited harvesting was underway. Soybeans bloomed on 46% of the acreage and 14% of the fields were setting pods. Cotton squaring reached 79% and boll set was 39% completed. Sorghum was 30% headed. Fruit picking and vegetable harvests gained momentum in northern areas. Pastures and ranges were in mostly good condition. Livestock rated good condition.

SMALL GRAINS: Winter wheat harvest in the 15 major producing States was 78% completed, about 4 points behind last year and the average. Even though harvest rapidly progressed it still lagged last year and the average in many States because of the late starting date and rainy weather. Progress was 48 percentage points behind normal in South Dakota, 20 points behind in Colorado, and 19 points in Nebraska. Open weather permitted farmers to spend long hours in the fields and harvest many acres during the week. Producers in Colorado combined 51% of their acreage during the week while those in Nebraska harvested 35%. In Ohio, 20% was harvested in 1 week. Harvesting in Texas was completed. In the eastern Corn Belt and in Oklahoma and Kansas, the harvest neared completion, about on schedule after getting off to a slow start in many areas.

Spring wheat headed on 90% of the acreage compared with 97% last year and the average.

CORN: Corn remained in good to excellent condition in parts of the eastern Corn Belt and Southeast and fair to good condition in other regions. In the 17 major producing States, corn was silking on 48% of the acreage and reached the dough stage on 12% of the acreage. In the eastern Corn Belt, development progressed ahead of normal, while in the western Corn Belt, it was slower than average. In the eastern region 70% of the corn was silking and 16% had reached the dough stage while last year 60% was silking and 9% had reached the dough stage. In the western area, 25% of the corn was silking and 2% had reached dough stage compared with 59% silking and 3% dough a year earlier. In the South, many fields were in the dent stage and some were mature. Harvesting increased in Florida, Georgia, and South Carolina.

SOYBEANS: Soybeans were in mostly good condition. In the 18 major producing States, 46% of the acreage was blooming and pod set was evident on 14% of the acreage. Progress generally lagged the average development for this date. Due to later-than-normal planting, progress in the West North Central States lagged well behind average while early planting in the East North Central States caused faster-than-normal development. Seventy-five percent of the soybeans were blooming in the eastern region and only 34% were blooming in the western area.

SORGHUM: Sorghum was in fair to good condition. In the 7 major producing States, 30% of the acreage headed, 7 points behind a year earlier. Heading was 74% finished in Texas but had not yet started in South Dakota. In Texas, 40% of the acreage was harvested, 3 points ahead of average. Fields matured rapidly under hot, dry weather conditions.

COTTON: In the 14 major producing States, 79% of the cotton was squaring and 39% was setting bolls. A year ago, 90% was squaring and 60% was setting bolls. Harvest in Texas was 8% complete. Defoliation operations were active through the Coastal Bend area. Insect populations increased, and control measures were active in most locations.

OTHER CROPS: Peanuts made good growth in Texas, although some dryland stands on Edwards Plateau and South Texas showed signs of moisture stress. In the Southeast, fields were blooming and pegging. The crop was generally in good condition.

Tobacco harvests gained momentum. The Georgia crop was 63% harvested, and the South Carolina crop was 47% harvested. The flue-cured harvest in North Carolina was 23% complete while the Virginia flue-cured harvest was just getting started.

VEGETABLES: Vegetable harvests increased in extreme northern areas and were virtually finished in the extreme South. Land preparation for planting later crops was the main activity in the southern growing areas. California growers continued to harvest a wide variety of crops

FRUITS AND NUTS: Peach harvest was underway as far north as New York. The Georgia and South Carolina crops were 90% picked. Apples in Georgia were being harvested; progress reached 18%. The Michigan tart cherry harvest was 50% completed. California growers harvested apples, apricots, avocados, figs, grapes, grapefruit, lemons, nectarines, Valencia oranges, pears, plums, and Cling and Freestone peaches. Almond hulls were splitting and growers were spraying trees for the Navel orange worm.

PASTURES AND LIVESTOCK: Pastures and ranges were in mostly good condition, although they were becoming dry in some areas. Conditions improved in areas receiving rainfall. Livestock rated good condition.

CROP PROGRESS

FOR WEEK ENDING JULY 25

COTTON
% SQUARING

	1982	1981	AVG.
ALA	100	100	91
ARIZ	98	99	98
ARK	100	100	100
CALIF	75	93	NA
GA	99	98	99
LA	99	99	98
MISS	100	100	98
MO	100	86	95
N MEX	90	95	NA
N C	98	92	NA
OKLA	15	75	65
S C	100	100	100
TENN	100	97	92
TEX	73	86	NA
14 STATES	79	90	NA
EXCL. STATES WITH NA	89	96	93

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.
NA - NOT AVAILABLE

COTTON
% SETTING BOLLS

	1982	1981	AVG.
ALA	64	81	53
ARIZ	93	96	93
ARK	88	85	71
CALIF	45	60	NA
GA	83	90	92
LA	80	74	79
MISS	70	68	62
MO	91	63	53
N MEX	35	50	49
N C	64	74	NA
OKLA	0	15	10
S C	95	98	87
TENN	50	40	45
TEX	17	54	NA
14 STATES	39	60	NA
EXCL. STATES WITH NA	67	68	62

THESE 14 STATES PRODUCED 99% OF THE 1981 COTTON CROP.
NA - NOT AVAILABLE

CORN
% SILKING

	1982	1981	AVG.
COLO	8	10	7
GA	100	100	100
ILL	90	79	79
IND	80	35	60
IOWA	30	81	69
KANS	40	50	55
KY	82	55	70
MICH	50	45	40
MINN	23	44	53
MO	59	67	60
NEBR	15	65	60
N C	94	96	NA
OHIO	80	30	55
PA	30	50	30
S DAK	0	26	30
VA	79	84	NA
WIS	9	35	30
17 STATES	48	59	NA
EXCL. STATES WITH NA	46	58	59

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.
NA - NOT AVAILABLE

CORN
% DOUGH

	1982	1981	AVG.
COLO	0	0	0
GA	93	97	NA
ILL	25	20	20
IND	20	0	3
IOWA	0	0	0
KANS	10	10	10
KY	14	10	10
MICH	0	0	1
MINN	0	0	2
MO	20	16	10
NEBR	0	5	8
N C	73	78	NA
OHIO	15	0	0
PA	0	0	0
S DAK	0	0	0
VA	30	39	NA
WIS	0	0	0
17 STATES	12	9	NA
EXCL. STATES WITH NA	8	5	5

THESE 17 STATES PRODUCED 93% OF THE 1981 CORN CROP.
NA - NOT AVAILABLE

SOYBEANS
% BLOOMING

	1982	1981	AVG.
ALA	32	44	53
ARK	20	22	23
GA	45	41	NA
ILL	78	60	68
IND	70	30	60
IOWA	35	81	78
KANS	15	25	30
KY	46	18	34
LA	42	51	49
MICH	45	35	30
MINN	44	70	77
MISS	48	61	48
MO	29	29	40
NEBR	30	70	NA
N C	24	34	NA
OHIO	80	40	55
S C	19	23	25
TENN	35	32	43
18 STATES	46	48	NA
EXCL. STATES WITH NA	47	48	55

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.
NA - NOT AVAILABLE

SOYBEANS
% SETTING PODS

	1982	1981	AVG.
ALA	8	18	NA
ARK	5	10	11
GA	15	15	NA
ILL	35	20	28
IND	15	2	15
IOWA	15	42	36
KANS	4	4	10
KY	12	2	8
LA	14	27	20
MICH	5	5	6
MINN	0	10	19
MISS	12	18	17
MO	10	10	10
NEBR	1	20	20
N C	0	0	NA
OHIO	35	10	25
S C	3	NA	NA
TENN	9	10	12
18 STATES	14	NA	NA
EXCL. STATES WITH NA	16	17	20

THESE 18 STATES PRODUCED 95% OF THE 1981 SOYBEAN CROP.
NA - NOT AVAILABLE

WINTER WHEAT
% HARVESTED

	1982	1981	AVG.
CALIF	90	96	NA
COLO	60	78	80
IDAHO	3	3	3
ILL	97	100	100
IND	91	99	96
KANS	98	99	99
MO	92	81	100
MONT	0	5	5
NEBR	75	96	94
OHIO	95	95	90
OKLA	99	100	100
OREG	18	16	NA
S DAK	15	54	63
TEX	100	100	100
WASH	14	11	11
15 STATES	78	82	NA
EXCL. STATES WITH NA	79	83	84

THESE 15 STATES PRODUCED 88% OF THE 1981 WINTER WHEAT CROP.
NA - NOT AVAILABLE

SPRING WHEAT
% HEADED

	1982	1981	AVG.
IDAHO	100	100	100
MINN	94	99	97
MONT	80	95	100
N D	87	96	94
S DAK	100	100	100
5 STATES	90	97	97

THESE 5 STATES PRODUCED 92% OF THE 1981 SPRING WHEAT CROP. NA - NOT AVAILABLE

RICE
% HEADED

	1982	1981	AVG.
ARK	10	15	14
CALIF	2	12	NA
LA	59	65	68
MISS	20	39	26
TEX	100	95	NA
5 STATES	32	38	NA
EXCL. STATES WITH NA	24	31	30

THESE 5 STATES PRODUCED 98% OF THE 1981 RICE CROP.
NA - NOT AVAILABLE

SORGHUM
% HEADED

	1982	1981	AVG.
COLO	4	2	3
KANS	3	5	10
MO	37	31	32
NEBR	1	30	30
OKLA	20	35	25
S DAK	0	9	8
TEX	74	77	NA
7 STATES	30	37	NA
EXCL. STATES WITH NA	7	16	18

THESE 7 STATES PRODUCED 92% OF THE 1981 SORGHUM CROP.

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State Offices in cooperation with the National Weather Service.

ALABAMA: Temperatures near normal. Most stations reported over 1.00 in. of rainfall.

Soil moisture adequate to surplus. Fieldwork: 3.5 days. Corn: Silked-virtually complete; dented 70%, 79% 1981, 51% average. Soybeans: Blooming 32%, 44% 1981, 35% average; setting pods less than 8%. Cotton setting bolls 64%, 81% 1981, 55% average. Peanuts pegging 95%, 96% 1981, 80% average. Conditions: Corn, soybeans, cotton, peanuts, sorghum, pastures, and livestock good.

ALASKA: Two different weather regimes prevailed. Warm, dry weather was followed by a cool showery pattern later in the week. Average temperatures were close to normal but seasonal rainfall totals running above normal. Tanana Valley: Warm, dry weather early in the week was followed by a cooling trend as wet weather set in at midweek. Seasonal rainfall totals above normal. Matanuska Valley: Generally warm, dry weather early in the week was replaced by a cool rainy pattern. Temperatures averaged near normal. Seasonal totals to near or slightly above normal. Kenai Peninsula: A couple of warm, dry days were followed abruptly by showery cool weather as the week progressed. Average temperatures ran a degree or two above normal. Seasonal rainfall totals below normal. Kodiak Island: A warm, dry week. Warm days prevailed due to abundant sunshine and no rain. Seasonal rainfall total above normal.

Farmers throughout Railbelt experienced variable weather. Beginning with sunshine and cloudy skies and rain by weeks end. Days suitable for making hay ranged from 2 days in the Matanuska Valley up to 4 days in Tanana Valley. Hay harvesting nearing completion in most areas. Small grain ranged from 24 to 30 in. in height. Early seeded oats and barley in dough stage, others mostly headed. Potato hilling nearly complete, over 30% in bloom most sections and 40 to 60% elsewhere. Top and subsoil moisture supplies adequate.

ARIZONA: Hot, humid weather with numerous thunderstorms last half of week. Precipitation amounts mostly between 0.25 and 0.50 in., generally 0.50 to over 2.00 in. in White Mountains, southeast. Average temperatures 2° below to 4° above normal.

Cotton squaring in 98% of cotton fields in State, behind last year's 99%. Boll setting, 93% complete, behind last year's 96%. Both stages of crop development same as averages. Safflower harvest complete in central area, finishing up western area. Harvest of sugarbeets approaching completion. Corn for grain, sorghum, normal progress. Alfalfa baling, limited scale. Cantaloup, honeydew harvests approaching completion. Harvesting watermelons finishing in central , western areas, will begin in eastern part of State August 6. Grape harvest nearly complete. Green onions made seasonal progress. Citrus groves in satisfactory condition. Ranges poor condition through southeastern, central and northwestern areas. Northeastern ranges fair, southwestern ranges very poor. Livestock in mostly fair to good condition. Water supplies short. Recent rains too light to improve range conditions.

ARKANSAS: Normal temperatures, scattered thundershowers. Highest temperature 105°, lowest 60°. All departures from normal ranged from +2 to -2°. Most rain 2.80 in., least zero.

Seven days available for fieldwork. Soil moisture short. Crop growth slowing down. Crops in good condition with soybeans fair to good. Soybeans blooming 20%, 22% 1981, 23% average; setting pods 5%, 10% 1981, 11% average. Rice headed 10%, 15% 1981, 14% average. Cotton setting bolls 88%, 85% 1981, 71% average. Corn denting. Sorghum heading, dough stage. Some hay harvested. Pastures average to short. Livestock good condition. Watermelon harvest underway.

CALIFORNIA: Another cool week with no rain. Only the South Coast was above normal in temperature. At the start of the week a dry cold front moved across North keeping all but the South Coast below normal. By midweek dryer and warmer air moved into the State from the Desert Southwest only to be moved eastward as another trough of cool air descended on the State from the Gulf of Alaska.

Warm temperatures beneficial for cotton development. Cotton 75% squared, 93% last year. Boll setting in 45% of acreage, 60% last year. Irrigation, cultivation, and pest management active. Rice showing good growth with 2% headed, 12 last year. Winter wheat harvest nearing completion with 90% harvested, 96 previous year. Corn and milo starting to tassel and head out. Sugarbeet harvest continues. Dry beans showing good development with a few fields still being planted. Alfalfa haying continues. Gravenstein apple harvest begun Sebastopol, Watsonville areas. Size, color below average. Tilton apricot harvest completed Patterson-Westley area. Hass, Reed, Macarthur avocado harvest continues, good quality. Mission (Black) fig harvest continues. Flame Seedless, Perlette, Cardinal grape harvest underway San Joaquin Valley. Thompson Seedless starts this week. Older vineyards good quality, newer smaller. High acid, low sugar, maturity problems. Mildew, insect treatment active. Other area grapefruit harvest continues, good quality. Lemon harvest active, poor to fair quality. Nectarine, Valencia orange, pear, and Friar plum harvest continuing. Cling and Freestone peach harvest active. Cling quality below average. Almond hulls splitting. Spraying for Navel orange worm active. Blighted walnut problem improved. Broccoli, cauliflower moderate supply Central Coast. Planting brussels sprouts completed. Melon harvest very active San Joaquin Valley. Carrot harvest fairly heavy Salinas Valley, active San Joaquin Valley. Sweet corn, cucumber harvest active most districts. Celery fairly heavy supply Central Coast. Lettuce moderate supply. Planting fall lettuce active San Joaquin Valley. Summer potato harvest active. Market tomatoes good supply San Joaquin Valley, South Coast. Processing tomato harvest complete Desert, increasing San Joaquin, Sacramento Valleys. Excellent feed in higher ranges. Cattle good gains summer range. Water supplies adequate.

COLORADO: Entire week hot and dry, except from mountains west where a few thunderstorms occurred. Temperatures 3 to 6° above normal; on the eastern Plains many readings in 100's. Hottest at the end of the week.

Warm, dry weather speeded winter wheat harvest. Spring grains progressing normally. Barley, 50% turning color, 20% ripe, 12% harvested; last year, 54% turning, 29% ripe, 24% harvested. Sugarbeets in good condition. Dry beans, 25% flowered; last year, 21%. Corn progressing well, height averages about 48 in., with 8% silked; 1981, height 53 in., 10% silked. Sorghum, 90% emerged, 4% headed; last year, 93% emerged, 2% headed. First cut of alfalfa hay 95% complete, second cut 30%; last year, 90% and 36% complete. Winter wheat in fair to good condition, 95% turning color, 85% ripe, and 60% harvested; last year 97% turning color, 92% ripe, 78% harvested. Averages, 96% turning color, 93% ripe, 80% harvested. Moisture adequate. Six days suitable for fieldwork. Livestock in very good condition.

FLORIDA: Summertime thunderstorms produced more rain than normal over much of the State. A few spots over 5.00 in. Moist tropical air prevailed during the period with no significant weather systems. Temperatures averaged near to slightly above normal.

Soil moisture adequate to excessive. Corn harvest increasing, yields good. Tobacco harvest active. Light digging of peanuts continues. Cotton, peanut, soybeans good condition. Sugarcane good to excellent condition. Haymaking continues but delayed and quality reduced by frequent showers. Pastures good to excellent condition but declining due to maturity and excess water in flat woods areas. Cattle good condition except those in low areas. Citrus grove condition continues excellent, moisture

adequate all areas. Lakes and pond levesl improving. New foliage most trees, caretakers very busy spraying, fertilizing and cultivating. Season complete for spring vegetables. Limited supplies summer vegetables and watermelons continue local markets. Land preparations active for fall crops.

GEORGIA: Rainfall amounts averaged between 1.00 and 1.50 in. with locally heavier amounts. Temperatures averaged 1 to 2° above normal north and 1 to 2° below normal south. Over the weekend it remained quite warm and humid with scattwred thundershowers. Rainfall averaged around 1.00 in.

Soil moisture 12% short, 57% adequate, 30% surplus. Four days suitable for fieldwork. Spraying for weeds, diseases and insects. Haymaking delayed by showers. Corn 20% fiar, 66% good, 13% excellent, 100% silked, last year and average, 93% dough stage, 97% last year, dent stage 75%, last year 86%, 45% mature, 65% last year, harvest 4%, 12% last year, 7% average. Cotton 27% fair, 60% good, 12% excellent, 99% squaring, 98% last year, 99% average, 83% setting bolls, 90% last year, 92% average. Sorghum 96% planted, 100% last year, 97% average. Peanuts 10% fair, 74% good, 16% excellent, 99% blooming this year, last and average, 95% pegging, 93% last year, 94% average. Spraying peanuts for rootworm foliage feeders, leafspot, white mold and weeds. Soybeans 12% fair, 79% good, 8% excellent, 45% blooming, 41% last year, 15% setting pods this year and last year. Tobacco 29% fair, 59% good, 12% excellent, 63% harvested, 42% last year and average. Watermelons 5% poor, 27% fair, 61% good, 5% excellent, 84% harvested, 82% last year, 81% average. Apples 7% very poor, 22% poor, 33% fair, 36% good, 18% harvested, 15% last year, 11% average. Peaches 14% very poor, 11% poor, 21% fair, 52% good, 90% harvested, 77% last year, 85% average. Pecans 36% fair, 59% good. Hay crops 5% poor, 15% fair, 71% good, 6% excellent. Pastures 7% fair, 83% good, 10% excellent. Cattle and hogs good.

HAWAII: Weather remains variable. Heavy rains midweek, some sections, Islands of Hawaii, Maui and Oahu. Few flash floods occurred. No serious crop damage. Crop progress slowed. Most major crop areas escaped the heavy rains. Spraying for insect and disease infestations. Vegetables: Supplies adequate. Watermelon harvest seasonally active. Bananas: Supplies light. Papayas: Spray schedule up to control diseases. Harvesting continues light. Pineapples: Peak harvest in progress. Sugar: Steady harvesting expected. Pastures: Rains will be beneficial - especially to the Leeward districts on Island of Hawaii.

IDAHO: Weak high pressure brought dry weather to most of the State for the entire week. Temperatures averaged from near normal in the southeast to 1 to 4° below normal in the southwest. Northern areas cool with averages of 3 to 4° below normal. Highest reading was at Mountain Home with 101° while Potlatch fell to 31°. Precipitation was limited to less than 0.10 in. at all reporting stations. The most precipitation recorded was 0.09 at both Malta and Rexburg.

Winter grain harvest underway. Warmer weather conductive to good row crop development. Winter wheat 3% harvested, 3% last year and average. Spring wheat 49% turned color, 45% in 1981. Barley 45% turned. First cut alfalfa hay 97% complete, slightly behind last year. Second cut at 8%. Potatoes closed the middles on 72%, last year 55%. Most corn now tasseling. Mint harvest at 12%. Ranges drying out, fire hazard increasing.

ILLINOIS: Temperatures 1° below to 3° above normal. Precipitation heavy in the north and central (1.00 to 4.00 in.), light to moderate in the south (0 to 0.50 in.).

Winter wheat 97% combined, 100% 1981, 100% average. Corn 44% excellent, 53% good, 3% fair. Corn 90% silked; 25% dough. Soybeans 24% excellent, 67% good, 9% fair. Soybeans 78% blooming; 35% setting pods. Alfalfa 67% second crop cut. Oats 85% ripe; 35% combined. Pastures 37% excellent, 61% good, 2% fair. Soil moisture 2% short, 48% adequate, 50% surplus.

INDIANA: Fieldwork averaged 4 days. Topsoil and subsoil moisture adequate. Corn 80% silked, 1981 35%, average 60%. Corn 20% in dough, 1981 0%, average 3%. Soybeans 70% in bloom, 1981 30%, average 60%. Soybeans 15% setting pods, 1981 2%, average 15%. Corn condition mostly good to excellent. Soybeans good condition. Wheat 91% harvested, 1981 99%, average 96%. Oats 30% combined, 1981 70%, average 55%. Rye 65% combined, 1981 90%, average 90%. Alfalfa hay 65% cut second time, 1981 65%, average 75%.

IOWA: Warm, humid week. Temperatures averaged 1 to 4° above normal. Showers ended early week, remaining dry through the weekend.

Topsoil moisture: 26% surplus, 72% adequate, 2% short. Subsoil moisture: 29% surplus, 71% adequate. Corn tasseled: 60%, last year 93%, normal 86%. Corn silked: 30%, last year 81%, normal 69%. Soybeans blooming: 35%, last year 81%, normal 78%. Soybeans setting pods: 15%, last year 42%, normal 36%. Oats harvested: 25%, last year 87%, normal 72%. Wheat harvested: 55%, last year 94%, normal 88%. Second crop alfalfa hay harvested: 58%, last year 83%, normal 78%. Second crop clover harvested: 30%, last year 54%, normal 45%. Fieldwork: 4.4 days suitable. Crop conditions: Corn and soybeans, fair to good; pasture, wheat, oats and hay mostly good. Livestock in good condition.

KANSAS: Precipitation averaged 0.40 to 0.80 in. central, southwest and northeast districts, 0.25 in. or less elsewhere. Temperatures averaged 77° northwest, 79 to 81° elsewhere, 2 to 5° below normal.

Wheat harvest winding up 98% complete, last year 99%, average 99%. Sorghum planted 99%, last year 100%. Sorghum headed 3%, last year 5%, average 10%. Soybean planting near completion 99%, same as last year. Soybeans 15% blooming, last year 25%, average 30%. Soybeans setting pods 4%, same as last year, average 10%. Corn silked 40%, last year 50%, average 55%. Corn in dough stage 10%, same as last year and average.

KENTUCKY: Warm and humid. Afternoon highs in mid 80's to mid 90's, lows mostly 60's to lower 70's. Precipitation averaged 1.00 to 1.50 in.

Five days available for fieldwork. Soil moisture 24% short, 67% adequate, 9% surplus. Corn condition mostly good to excellent; 82% silked or beyond, 55% year ago, 70% average; 14% dough, 10% year ago and average. Soybeans good; 46% blooming, 18% last year, 34% average; setting pods 12%, 2% year ago, 8% average. Tobacco mostly good. Burley average 35% blooming. Hay and pastures mostly good.

LOUISIANA: Rainfall averages ranged from 0.50 north to over 3.00 in. southeast. Temperatures 1 to 2° above normal north, 3° below normal south.

Soil moisture adequate. Days suitable: 5.0. Corn mature 60%, 65% 1981, 46% average; harvested 14%, 21% 1981; condition good. Rice headed 59%, 65% 1981, 68% average; ripe 10%, 15% 1981, 17% average; harvested 6%, 12% 1981, 8% average; condition good. Yields excellent. Cotton squaring

99% 1982 and 1981, 98% average; setting bolls 80%, 74% 1981, 79% average; condition good. Soybeans flowering 42%, 51% 1981, 49% average; setting pods 14%, 27% 1981, 20% average; condition fair to good. Sorghum headed 77%, 80% 1981, 75% average; turning color 43%, 49% 1981, 26% average; condition fair to good. Sweetpotatoes harvested 2%, 5% 1981, condition good. Sugarcane rated good, continued reports of sugarcane smut disease. Peach harvest 91% complete, the same as 1981. Pecans rated fair. Pastures, livestock good condition.

MARYLAND AND DELAWARE: Temperatures averaged 2° above normal. High's averaged in the low 90's and lows were in the upper 60's to low 70's. Rain fell as widely scattered showers with the most rain at Cumberland with 2.27 in. and the least at Hagerstown with only a trace. Weekend weather was sunny, hot and humid with highs in the upper 80's to low 90's and lows in the upper 60's.

Corn, soybeans, apples and peaches in good condition but rain needed to replenish topsoil moisture. Maryland's progress: Corn silked 65%, 80% last year. Dough stage 10% this year; 15% last. Soybeans 25% blooming this year, 10% last. Tobacco 25% bloomed, 5% topped. Oats 45% harvested, 60% last year. Rye and wheat 90% and 95% respectively this year, 100% and 95% last year. Alfalfa hay 2nd cutting 75% this year, 95% last year. Alfalfa hay 3rd cutting 15% both years. Other hay 2nd cutting 75%, 45% last year. Other hay 3rd cutting 15% this year, 5% last. Snap beans 85% harvested, 80% last year. Potatoes 40% harvested, 55% last year. Tomatoes 15% harvested, 20% last year. Cucumbers 45% picked, 60% last year. Lima beans 50% harvested. Watermelon 25% harvested.

Delaware progress: Corn silked 65%, 85% last year. Dough stage development 30% this year, 25% last. Soybeans in bloom 15% both this year and last. Rye 90% harvested, and wheat 95% harvested, 100% both crops harvested last year. Alfalfa 3rd cutting 15% complete, 30% last year. Second cutting of other hay 50% complete, 60% last year. Snap beans 85% harvested; 60% last year. Potatoes and sweet corn 35% harvested, 45 and 30% respectively last year. Cucumbers 95% picked, 70% last year. Tomatoes 20% harvested, 25% last year. Watermelon 30% harvested.

MICHIGAN: A beautiful summer week with near normal temperatures reported. Precipitation was light except for heavy amounts dropped by slow moving thunderstorms across the southern sections during the weekend.

Conditions remain favorable for crop progress and development. Statewide 5.5 days were suitable for field activity. Soil moisture supplies mostly adequate. Corn silked average 50%, 45% last year, 40% average. Winter wheat harvest 25% complete, 75% last year and 57% average. Oats ripe 5%, 35% last year and 21% average. Soybeans blooming 45%, 35% last year, and 30% average. Dry beans blooming 40%, 60% last year and 56% average. Second cut hay 35% complete, 35% in 1981 and 39% average. Tart cherry harvest 50% complete, 70% last year and 63% average. Other fruits and vegetables near normal in progress.

MINNESOTA: Temperatures averaged from the mid 60's northeast to generally the low to mid 70's elsewhere and ranged from 2° below normal extreme northeast to generally 1 to 5° above normal elsewhere. The highest reported temperature was 96° at Browns Valley while the coolest was 45° at International Falls. Rainfall was again scattered as thunderstorms rumbled across the State. The northern third of the State averaged over 1.00 in. as did the southwest. The central and southeast average between 0.50 and 1.00 in. While the remainder of the State averaged less than 0.50 in. The greatest reported weekly total was 3.25 in. at Red Wing.

Crops still behind normal development but making good progress. Row crops helped by warm and humid weather. Topsoil moisture 20% short, 71% adequate, and 9% surplus. Heading: Spring wheat 94%, 1981 99%, normal 97%; oats 98%, 1981 99%, normal 98%; barley 98%, 1981 99%, normal 98%. Turning ripe: Spring wheat 37%, 1981 74%, normal 64%; oats 60%, 1981 84%, normal 75%; barley 53%, 1981 92%, normal 76%. Tasseling: Field corn 43%, 1981 73%, normal 72%. Blooming: Soybeans 44%, 1981 70%, normal 77%; sunflowers 6%, 1981 29%, normal 31%.

MISSISSIPPI: Temperatures averaged near normal. Extremes: 65 and 100°. Scattered afternoon thunderstorms most common in southern and eastern areas. Greatest 24-hour rainfall 2.34 in.

Soil moisture short in northwest area, adequate elsewhere. Fieldwork: 5.0 days suitable. Hay harvest, pasture clipping, weed and insect control measures main farm activities. Cotton 100% squaring, 100% last year, 98% average; 70% setting bolls, 68% last year, 62% average; condition good. Soybeans 48% blooming, 61% last year, 48% average; 12% podding, 18% last year, 17% average; condition good to fair. Rice 20% headed, 39% last year, 26% average; condition good. Corn 72% in dough stage; 34% dented; condition good. Sorghum 58% headed, 55% last year. Hay 67% harvested, watermelons 68%, and peaches 70% harvested. Pasture condition good.

MISSOURI: Temperatures averaged slightly above normal. Rains were scattered and amounts varied from none to over 2.00 in.

Fieldwork: 4.6 days suitable. Corn 74% tasseled, last year 77%. Corn 59% silking, last year 67%. Corn 20% in dough stage. Grain sorghum 37% headed, last year 31%, normal 32%. Soybeans 29% blooming, last year 29%, normal 40%. Wheat 92% harvested, last year 81%, normal 100%. Oats 77% harvested, last year 76%, normal 88%. Alfalfa hay - 2nd cutting 77% harvested, last year 80%, normal 83%. Alfalfa hay - 3rd cutting 20% harvested, last year 13%, normal 14%. Other hay 82% harvested, last year 78%. Cotton 91% setting bolls, last year 63%, normal 53%. Condition of corn and pasture mostly good. Condition of cotton, soybeans and grain sorghum fair to good. Supply of topsoil moisture mostly adequate.

MONTANA: Dry weather prevailed west of Rockies. East of Rockies wetting thunderstorms produced spotty heavy rainfall late in week. Temperatures began and ended week below normal. Hottest weather so far this season occurred midweek east of Rockies. Temperatures averaged 3 to 5° above normal in east but about normal elsewhere.

Topsoil moisture short to adequate. Subsoil moisture mostly adequate. Six days suitable for fieldwork. Condition most crops good. Sugarbeets and corn fair to good. Crop progress compared with last year and normal: percent headed winter wheat 100, 100, 100; spring wheat 80, 95, 100; barley 95, 90, 100; oats 85, 95, 100. First cutting alfalfa 80, 100, 100; wild hay 60, 60, 70. Percent winter wheat ripe, 5. Winter wheat harvest expected to start August 5, normally July 29. Grasshopper activity light.

NEBRASKA: Precipitation: Scattered thunderstorms produced slight amounts of less than 0.50 in. in most areas. Temperatures: 3 to 5° above normal.

Wheat harvested 75%, 96% last year and 94% normal. Combining near completion in southern third of State; Panhandle harvest 33% finished. Corn mostly good to fair. Silked 15%, about two weeks behind 65% last year and 60% normal. Dough 0%, 5% last year and 8% normal. Soybeans good. Blooming 30%, 70% last year. Pod setting 1%, 20% last year and normal. Sorghum mostly good to fair. Heading 1%, 30% last year and normal. Alfalfa mostly good. Harvested second cutting 70%, 80% last year and normal. Poor hay drying conditions during week. Pasture and range feed mostly adequate. Large band of hail damaged crops in northeast and east central counties. Topsoil moisture short to adequate. Subsoil moisture adequate. Days suitable: 6.4.

NEVADA: Above normal temperatures and widely scattered mostly afternoon and evening thunderstorms dominated most of the State. Temperature extremes ranged from 118° at Logandale on the 22nd to 34° at Mountain City on 21st. Rainfall 0.16 in. at Ely to much heavier amounts in isolated areas of southern and eastern State.

Warmer temperatures aiding crop development. Alfalfa hay harvest hampered by afternoon showers. Range and pastures benefited from showers.

NEW ENGLAND: Temperatures averaged above normal. Rain on the 20th brought relief over all but the northwest and the extreme northeast portions of New England. Amounts ranged from 0.00 to 3.00 in.

Hay harvest: 2nd crop 30%, 1981 29%. Quality better than first crop. Maine potatoes: variable plant size, very dry, moisture stress, crop condition only fair. Cranberries: Early varieties continue to set well; later varieties in peak bloom. Cranberry growers continue to irrigate. Very good crop prospects. Warm weather helping crop development. Harvest of summer vegetables and early varieties of sweet corn.

NEW JERSEY: Temperatures slightly below normal. Extremes: 49° at Belvidere on 21st and 99° at Toms River on 19th. Rainfall averaged 0.82 in. north, 1.11 in. central and 1.66 in. south. Heaviest 24 hour total 2.48 in. at Freehold on 20th to 21st. Estimated soil moisture, in percent of field capacity averaged: 74% north, 67% central and 67% south. Four inch soil soil temperature averaged: 74° north, 76° central and 77° south.

Fieldwork: 5.9 days suitable. Thunderstorms improved soil moisture in many areas. High temperatures again drying soils, irrigation underway. Summer vegetables moving in heavy volume. Irish potato movement continues very light. Shipments to date well behind last year. Blueberry volume beginning to taper off. Peach harvest increasing. Redhaven variety picking underway. Wheat and rye combining nearing completion. Field corn and soybeans responding to showers. Some areas need more rain. Second cutting of hay active.

NEW MEXICO: Temperatures were slightly above normal at most locations.

Scattered showers occurred across the State and continue to cause some delay in harvesting and other fieldwork. Soil moisture remains in a short to adequate supply in most areas. Insect problems beginning to be noted in cotton and alfalfa fields in some areas. Cotton in good condition in the main producing areas. Alfalfa fields remain in good condition. Harvest of wheat and barley mostly complete. Irrigated grain sorghum in good condition with the dryland crop in fair condition. Corn in good condition with approximately 75% tasseling. Chile and onions in good condition with harvest of mid-season onions continuing. Peanuts in good condition and progressing well. Most fruit orchards in good condition. Range conditions fair to good due to spotty rainfall. Cattle and sheep in mostly good condition. Cotton squaring 90%, 95% 1981. Cotton setting bolls 35%, 50% 1981, 49% average.

NEW YORK: Normal temperatures and light rainfall.

Good fieldwork conditions. Most areas dry and looking for rain. Corn uneven, some tasseling short. Winter wheat harvest 18% complete, 20% 1981, 18% average. Oat harvest starting. Second cutting alfalfa 20% done, 18% 1981, 16% average. Some third cutting. Heat and water stress to some vegetable crops. Onions, potatoes mostly in good condition. Sweet corn, snap bean harvests underway. Sweet cherry harvest nearly done. Peach harvest increasing.

NORTH CAROLINA: Temperatures: Near normal along the coast to 1 to 3° above normal over the rest of the State. Precipitation: Generally 0.25 to 0.75 in. in most localities with the heaviest amount being 3.53 in. at Asheville.

Fieldwork: 5.4 days suitable. Soil moisture: 1% very short, 19% short, 69% adequate, and 11% surplus. Conditions: Pasture, cotton, peanuts, soybeans, hay, sweetpotatoes, and truck crops mostly good; field tobacco fair to mostly good; corn mostly good to excellent; apples poor to fair. Harvests: Irish potatoes 90%, 95% average; flue-cured tobacco 27%, 1981 23%, 20% average; hay 72%, 1981 73%, 73% average. Phenological stages: Cotton squared 98%, 1981 92%; cotton setting bolls 64%, 1981 74%; corn silked 94%, 1981 96%; corn in soft dough stage 73%, 1981 78%; corn in dent stage 43%, 1981 49%; soybeans bloomed 24%, 1981 34%. Major farm activities: Harvesting flue-cured tobacco, vegetable harvest, and spraying soybeans.

NORTH DAKOTA: Temperatures averaged slightly above normal. Extremes ranged from 43° north central to 101° south central. Precipitation was 0.38 in. below normal southwest to 0.92 in. above normal northwest. Thunderstorms produced some rain in excess of an inch and small hail.

Warm weather with additional moisture pushed fall seeded and early spring seeded small grains rapidly to maturity, but development of both small grains and row crops lags normal. Moisture stress showing on crops in need of rain in the southern quarter of the State and some reduction in small grain yields expected in these areas. Overall, crop condition mostly good. Some hail damage, flooding and lodging occurred in isolated areas across the State. The percent of acreage heading or beyond with last year and average was: Hard red spring wheat 87, 96, 94; durum 84, 93, 91; barley 94, 96, 95 and oats 88, 97, 95. Percent in bloom and beyond with last year and average was: Potatoes 36, 83, 80; flax 57, 66, 71; and dry beans 29, 72, 66.

OHIO: Temperatures only few degrees above normal. Highs ranged from the low 80's early week to upper 80's by weekend. Lows averaged low to mid 60's; upper 50's two mornings. Growing degree day totals above normal; deviation range from 5 to 15. Rainfall ranged from less than 0.05 to 1.50 in. Most stations received under 1.00 in.; below normal.

Farm activities: Winding up winter wheat harvest, combining oats, baling hay, detasseling seed corn, harvesting sweet corn, hauling manure, and spraying pesticides. All crops in good condition - only slight stress due to lack of moisture. Livestock beginning to stress from hot, humid conditions. Corn silked 80%, 30% 1981, 55% average. Corn in dough 15%, 0% 1981, 0% average. Soybeans blooming 80%, 40% 1981, 55% average. Soybeans pod setting 35%, 10% 1981, 25% average. Winter wheat harvested 95%, 95% 1981, 90% average. Oats harvested 20%, 50% 1981, 30% average. Alfalfa harvest - 2nd cut 75%, 55% 1981, 65% average.

Other hay harvest - 2nd cut 55%, 30% 1981, 35% average. Days favorable 5. Pasture condition good. Soil moisture 25% short, 75% adequate.

OKLAHOMA: Rainfall averages ranged from 0 in the west central and east central to 0.85 in. in the Panhandle. Temperatures ranged from normal in the Panhandle to 1 to 3° above normal elsewhere.

Hot, dry weather creating crop stress. Topsoil moisture supplies short in over 50% of counties for first time in 12 weeks. Wheat harvested: 99%, 100% 1981, 100% average. Sorghum heading: 20%, 35% 1981, 25% average. Cotton squaring: 15%, 75% 1981, 65% average. Days suitable for fieldwork: 6.4.

OREGON: Dry week. Temperatures near normal west of Cascades, 1 to 2° below normal in east.

Winter wheat harvest 18%; 16% last year. Yields average or above in east. Grass seed harvest continues. Barley harvest winding down. Oat harvest started. Hay cutting continues. Mint and corn fields good condition. Cherry harvest over except higher elevations. Early peaches being picked. Berry harvest continues. Cranberries good shape. Filberts and walnuts maturing normally. Early potato harvest picking up momentum. Peas about over; snap beans and early sweet corn harvest started. Other vegetables being picked in volume. Livestock good. Range and pastures poor to good. Range in Columbia Basin dry with high fire danger. Ranges in high elevation good to excellent shape.

PENNSYLVANIA: Hot and humid with scattered showers and thunderstorms 19th and 20th followed by clear, cool, and drier air remainder of week. Temperatures averaged near normal with extremes 95 and 38°. Rainfall from 2.00 in. northwest mountains and parts of Poconos to less than 0.25 in. most southern counties where substantial rain has not occurred since July 3. Elsewhere, totals 0.40 to 1.50 in.

Six days suitable. Moisture short to adequate. Activities: Spraying; baling; straw; making hay; and harvesting barley, wheat, rye, speltz, oats, peaches, early apples, blueberries, potatoes, snap beans, tomatoes, and sweet corn. Barley 11% ripe and 89% harvested, last year less than 5% ripe and 88% harvested. Wheat 32% ripe and 65% harvested, last year 27% ripe and 65% harvested. Oats 28% ripe and 7% harvested, last year 32% ripe and 18% harvested. Average corn height 63 inches, last year 62 inches. Second crop alfalfa 50% harvested, last year 64%. Harvest of first crop clo-tim 94% complete, virtually complete at this time last year. Quality of hay made good to fair. Feed from pastures average to below average.

PUERTO RICO: Island average rainfall 2.63 in. or 1.35 in. above normal. Highest total 5.97 in. Temperatures averaged 80 to 81° on Coasts and 78 to 79° Interior Divisions. Extremes: 93 and 59°.

SOUTH CAROLINA: Cloudy weather. Temperatures averaged near to slightly below normal as showers occurred throughout the week.

Soil moisture adequate to wet; 4 days suitable for fieldwork. Corn good to excellent condition 92% dough stage, 92 last year, 81 average; 29% mature, 45 last year, 37 average; 2% harvested ahead of last year, and average. Cotton good condition, 95% setting bolls, 98 last year, 87 average; 1% open bolls ahead of last year and average. Soybean pest on the increase due to rains, 19% blooming, 23 last year, 25 average; 3% setting pods. Tobacco fair to good, auction markets opened July 26 with good prices expected; 98% topped; 47% harvested, 35 a year ago, 39 average. Peach season winding down; 90% harvested, 73 a year ago, 71 average. Fall vegetable planting underway, 4% snap beans and cucumbers. Fall hay and pastures looking good, excess rain for hay making.

SOUTH DAKOTA: Temperatures 3 to 5° above normal. Extremes: 104 to mid-40°. Average temperatures mid-70° to mid-80°.

Topsoil moisture critically short across north part of State. Adequate most east river, south central, Black Hills and southwest corner. Short elsewhere. Five days suitable. Haying, cultivating, preparing combines, harvesting main activities. Hail and wind damage from storms. Producers concerned with wheat scab. Hot temperatures, lack of rain, diseases may cut yields in many areas. Ranges good, but drying out. Livestock good. Spring turning color 76%, 1981 95%, average 80%. Oats turning color 79%, 1981 97%, average 92%. Barley turning color 87%, 1981 98%, average 95%. Winter wheat ripe 81%, 1981 100%, average 92%. Winter rye ripe 96%, 1981 99%, average 95%. Spring wheat ripe 38%, 1981 82%, average 60%. Oats ripe 53%, 1981 94%, average 77%. Barley ripe 65%, 1981 94%, average 79%. Flax blooming 84%, 1981 89%, average 93%. Soybeans blooming 31%, 1981 68%, average 72%. Winter wheat harvested 15%, 1981 54%, average 63%. Winter rye harvested 20%, 1981 54%, average 52%. Spring wheat harvested 5%, 1981 26%, average 25%. Corn tasseled or beyond 20%, 1981 53%, average 49%.

TENNESSEE: Fieldwork averaged 4.7 days. Soil moisture 47% short, 43% adequate and 10% surplus. Soybeans 35% blooming, 32% 1981, 43% average. Soybeans setting pods 9%, 1981 10%, average 12%. Corn silking 87%, 1981 83%, average 73%. Corn dough stage 30%, 1981 39%, average 28%. Corn dent stage 6%, 1981 9%, average 6%. Cotton setting bolls 50%, 1981 40%, average 45%. Burley tobacco topped 24%. Pastures fair. Cattle good.

TEXAS: Warm, moist air prevailed, scattered thunderstorms continued throughout week Southeast Texas. Scattered thunderstorms developed Panhandle along weak front. Thunderstorms North Central Texas end of week. Otherwise, skies partly cloudy. Temperatures below normal northern half State, above normal southern half. Precipitation 0.25 to 0.50 in. below normal across most State, except near normal amounts East Texas.

Crops: Hot, dry weather prevailed during week, many areas reached 100° first time this year. Crops maturing rapidly under hot temperatures, harvesting operations good progress southern part State. Wheat harvest virtually complete, stubble being plowed. Dryland crops moisture stressed some localities, many producers welcome rain. Cotton harvest underway Lower Valley, defoliation operations active through Coastal Bend. Plains most stands making good progress with hot temperatures, but crop varying stages growth. Some dryland fields Blacklands moisture stressed, shedding bolls. Insect populations increasing scattered fields across State, control measures active most localities. Statewide condition 60% of normal with 2% excellent; 27% good; 48% fair; and 23% poor. This compares with 84% of normal last year. Sorghum fields maturing rapidly under hot, dry weather, harvest virtually complete Coastal Bend to Lower Valley. Harvesting operations active across Blacklands and South Central Texas, good yields many early fields. Plains crop good progress in boot to pre-boot stage. Weeds serious problem some stnads, because wet soils prevented cultivation early season. Spraying operations active. Condition across State was 82% of normal with 16% excellent; 56% good; 22% fair; 5% poor; and 1% failure. This compares with 91% of normal last year. Corn harvest underway Central Texas southward. Yields low some late-planted stands. Stands maturing rapidly and making good progress across High

Plains. Insect and disease damage reported Lower Valley. Reported condition was 86% of normal with 20% excellent; 53% good; 26% fair; and 1% poor. This compares with 91% of normal last year. Wheat harvest virtually complete across State. Some fields abandoned where heavy weed populations. Summer tillage operations underway. Rice maturing with hot weather, harvest good progress along coast. High winds lodging, red rice and grass problem scattered fields. Statewide condition was 83% of normal with 7% excellent; 73% good; 13% fair; and 7% poor. This compares with 85% last year. Peanuts good progress across State, although some dryland stands Edwards Plateau and South Texas moisture stressed. Weeds problem some stands Edwards Plateau. Planting operations winding down soybean fields High Plains. Dry weather slowed hay production some areas, rain would be beneficial additional cuttings. Many producers third alfalfa cutting.

Vegetables: Land preparation and planting fall vegetables active. Harvest summer-quarter vegetables winding down, light volume moving market. East Texas, tomato harvest complete some areas. Sweetpotato fields beginning to lap, irrigation full swing. Fall-vegetables planted some areas. Cantaloup harvest underway this week. Plains, onion, potato and cucumber harvest continued, onion volumes light. Bell peppers good progress.

Range and pasture: Ranges and pastures beginning to brown under hot, dry weather, although ample forage supplies continue provide good grazing most areas. Livestock good condition, market activity varied throughout State. Grasshoppers major problem Plains and Cross-Timbers. Cotton squaring 73%, 86% 1981. Cotton setting bolls 17%, 54% 1981. Cotton open bolls 5%, 3% 1981. Cotton harvested 0%, 2% 1981, 1% average. Rice headed 100%, 95% 1981. Rice turning color 85%, 77% 1981. Rice harvested 24%, 23% 1981, 17% average. Sorghum headed 74%, 77% 1981. Sorghum turning color 59%, 62% 1981. Sorghum mature 45%, 48% 1981. Sorghum harvested for grain 40%, 30% 1981, 37% average. Wheat harvested for grain 100%, 100% 1981, 100% average. Corn harvested 8%, 1% 1981, 4% average. Oats harvested 99%, 100% 1981, 100% average. Soybeans planted 99%, 95% 1981, 99% average. Sunflowers planted 100%, 94% 1981, 99% average.

UTAH: Widely scattered areas of shower and thunderstorm activity, principally over weekend. Accumulated amounts moisture generally light to moderate but locally heavy few localities. Average temperature ranged from 2° below normal to 7° above. Pan evaporation ranged from about 2 in. to over 3.5 in. during period.

Farm work interrupted by rain showers. Most active were second crop hay harvest and small grain combining. Eleven percent of winter wheat cut by week's end and 27% of second crop hay. Yields and quality generally good. Barley and spring wheat ripening fast. Harvest will pick up in the next week. Sweet cherry harvest past. Harvest of a moderate tart cherry crop and a small apricot crop progressing. Corn making good growth, but will be late maturing because of slow start. Irrigation water supplies adequate.

VIRGINIA: Mostly cloudy with scattered showers first half of period - mostly sunny skies during last portion. Temperatures: Highs averaged about 90 with the lows around 70. Rain fell across most of the State during mid period averaging 0.50 to 0.75 in.

Fieldwork was active last week with haying, spraying, fruit and vegetable harvesting and tobacco work the main activities. Topsoil moisture was rated 30% short, 62% adequate and 8% surplus. Days suitable for fieldwork: 4.9. Haying active with rain and insect damage noted. Corn: Excellent condition, 79% silked, 84% 1981; 30% dough, 39% 1981. Soybeans: Good condition, 16% blooming, 9% setting pods. Flue-cured tobacco: Excellent condition; 4% harvested (1% above last week), 18% 1981 and 5% average. Potatoes: 64% harvested. Peanuts rated excellent, hay and apples good and peaches fair. Pasture forage rated 97% adequate and 3% poor. Harvest of vegetables progressing on schedule. Melons doing well. Livestock in good condition but flies a problem and treatment has been difficult because of the heat and moisture.

WASHINGTON: An upper level low pressure center moved across southern Canada during the early part of the week, and brought light precipitation to quite a few areas. As the low moved east, surface high pressure built into the State for warm, dry conditions. Along the coast, night and morning low clouds kept the temperature cool.

West: Sunny weather provided ideal growing conditions. Summer vegetables such as cauliflower, broccoli, cabbage, lettuce, radishes, peas, onions, and spinach continue to be harvested. Tomatoes, corn, beans, cucumbers, and other warm weather crops growing well. Strawberry harvest complete. Raspberries and blueberries continue to be harvested. Blackberries turning color. Some green apples being picked. Livestock in good condition. Pastures in adequate condition. Hay supplies adequate.

East: Warm, dry weather helped grain crops to mature. Harvesting of winter wheat and barley underway in early grain counties. Corn and dry beans growing well. First cutting of Timothy hay nearly complete and second cutting of alfalfa hay beginning. Cherry harvest near completion. Apricot and peach harvest underway. Apple and pear harvest due mid-September and mid-August, respectively. Livestock in good condition. Pastures in good shape for this time of year. Dry conditions reported where no irrigation. Hay supplies adequate.

WEST VIRGINIA: Temperatures averaged 1 to 3° above normal. High 94°, low 46°. Precipitation varied. Range 0.19 to 3.08 in.

Soil moisture adequate. Days worked averaged: 4.3. Main activities: Hay harvesting, gardening, small grain harvesting, pasture clipping. Small grains in good to fair condition. Wheat: 70% harvested; 82% in 1981. Barley: 81% harvested; 96% in 1981. Oats: 30% harvested; 30% in 1981. Corn in good to fair condition. Hay in good to fair condition. First cutting 91% complete and 83% of normal, 88% and 86% in 1981; 2nd cu-ting, 25% complete, 82% of normal, 28% and 68% in 1981. Tobacco in fair condition. Pastures in good to fair condition. Peaches in poor condition with 18% harvested. Apples in good to fair condition. Gardens in good to fair condition.

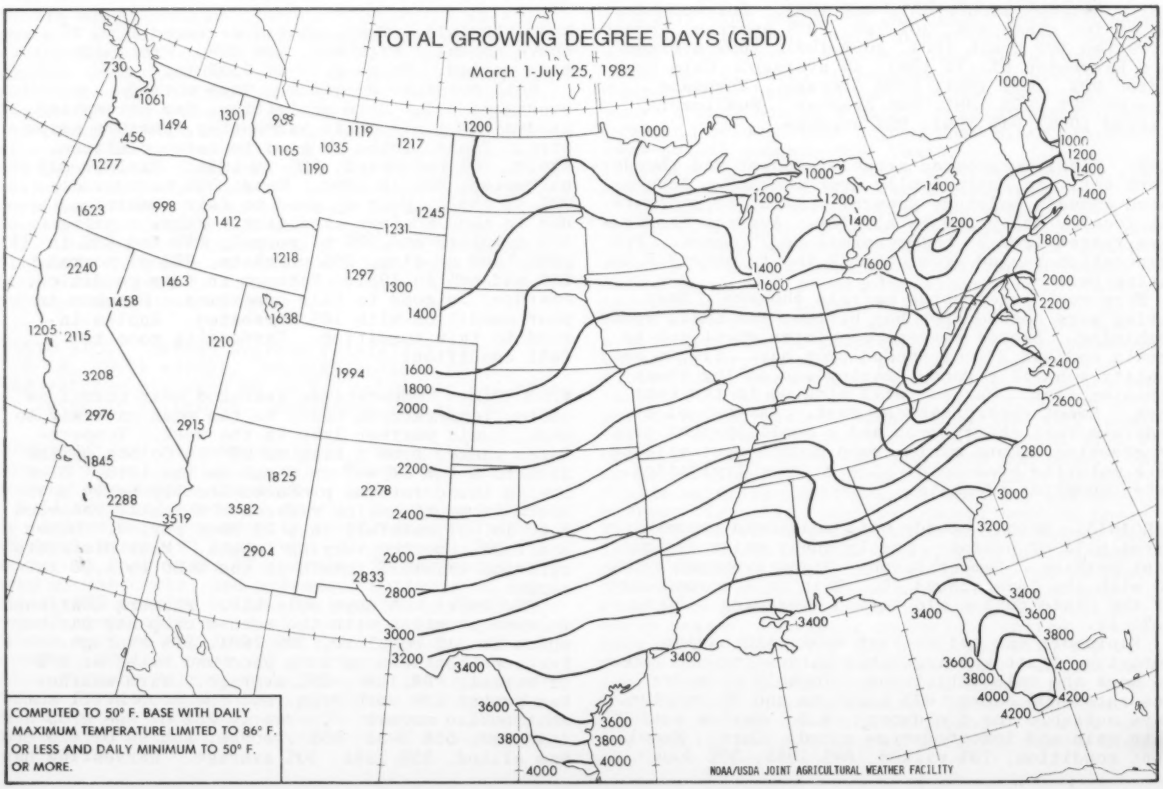
WISCONSIN: Temperatures averaged near normal as cooler temperatures early in the week gave way to warm, humid weather late in the week. Temperatures ranged from a high of 96° in Coloma on the 25th to a low of 40° in Morse on the 19th. Slow moving thunderstorms produced locally heavy downpours in south during midweek. Marshall recorded 3.50 in. of rainfall in a 24 hour period. Other stations reported varying totals. Most districts reported rainfall totals in the 0.50 to 1.00 in. range.

Fieldwork: 5 days suitable. Farmers continued to make progress with the second crop hay harvest which is 31% complete, 33% 1981, 27% average. Pastures continue to look good and rated at 87% of normal, 78% 1981, 75% average. Warm weather has pushed the corn crop, but the crop still somewhat behind normal. Currently 28% of the crop has tasseled, 55% 1981, 55% average, and 9% of the crop has silked, 35% 1981, 30% average. Harvesting has

started on winter wheat and rye crops. Oats maturing. Numerous farmers have harvested oats as forage because the red leaf virus has been a problem. Soybeans have showed good growth as did tobacco. A number of soybean growers have reported weed problems. More and more of the State's many vegetables now available at roadside stands and farmer's markets. Topsoil moisture supplies were rated 9% short, 68% adequate and 23% surplus. Moisture supplies were especially abundant in the south central and southeast districts where they rated 45 and 46% surplus, respectively.

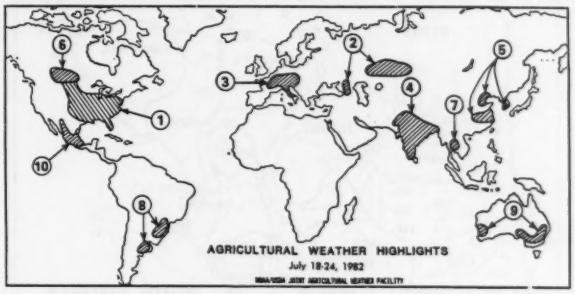
WYOMING: Temperatures top the century mark. Stations were slightly above normal. Exception was Powell, recording 4.4° below normal. Only significant precipitation was at Newcastle with 0.62 in. State recorded below normal moisture.

Topsoil moisture short 57% State. Average 7 days suitable fieldwork. Small grains maturing slower than normal. Winter wheat mature: 40%; normal 86%. Winter wheat harvested: 5%; normal 43%. Spring wheat turning color: 30%; normal 66%. Spring wheat mature: 5%; normal 28%. Oats turning color: 20%; normal 51%. Oats mature: 5%; normal 20%. Barley turning color: 40%; normal 71%. Barley mature: 5%; normal 32%. First cutting alfalfa hay harvest: 80%; normal 91%. Other hay harvested: 30%; normal 51%. Corn tasseled: 5%; normal 37%. Dry beans in bloom: 30%; normal 57%. Potatoes in bloom: 60%; normal 47%. Row crops fair to good condition. Stock water adequate 80% State. Livestock contracting slower than a year ago.

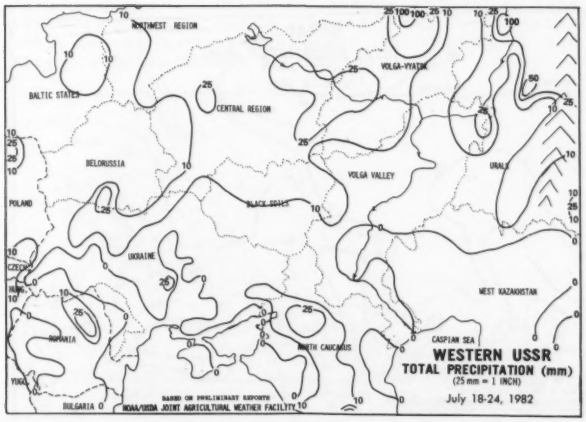

TOTAL GROWING DEGREE DAYS (GDD)
March 1-July 25, 1982
COMPUTED TO 50° F. BASE WITH DAILY MAXIMUM TEMPERATURE LIMITED TO 86° F. OR LESS AND DAILY MINIMUM TO 50° F. OR MORE.
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

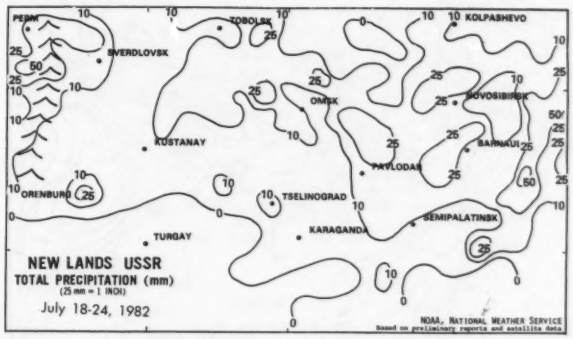
International Weather and Crop Summary

July 18-24



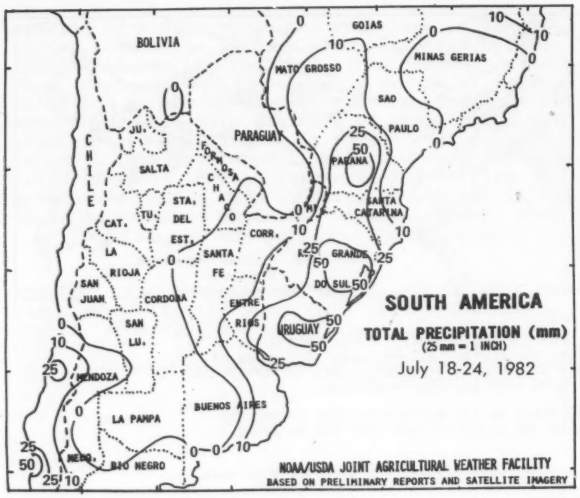
1. UNITED STATES: Warm temperatures favor corn silking and soybean blooming in the Corn Belt; a few western areas remain too wet. Hot, dry weather allows rapid harvesting of winter wheat in the central Plains and development of spring wheat further north. Rains over most of the East maintain good crop growing conditions.
2. USSR: Showers continue to plague harvest activity in the North Caucasus; in the New Lands, showers benefit spring grains in the north but too late for maturing grains in the south.
3. EUROPE: Wet weather in central areas delays winter grain harvest but beneficial to corn.
4. SOUTH ASIA: Monsoon strengthens and moves into Pakistan; crop conditions generally improved.
5. EASTERN ASIA: Rains improve crop conditions in Hebei and southern South Korea; too wet on southern part of the North China Plain.
6. CANADA: Beneficial rain for wheat in heading and filling stages throughout Prairies.
7. SOUTHEAST ASIA: Variable rainfall in Thailand has left some rainfed rice and corn areas too dry.
8. SOUTH AMERICA: Heavy showers promote weed growth as well as vegetative growth of wheat in southern Brazil; scattered showers in eastern wheat area of Argentina.
9. AUSTRALIA: Light showers provide only minimal relief in eastern wheat areas as drought conditions worsen; beneficial showers aid wheat growth in west.
10. MEXICO: Rains help corn and beans in the southern Plateau while hot, dry weather stresses citrus over the northeast.



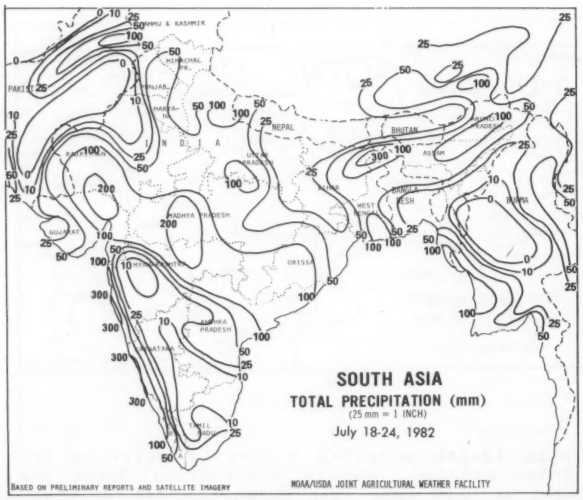


USSR: Showers fell late in the week over parts of the northwest Ukraine, causing only minor delays in the winter grain harvest. Overall, most of the Ukraine had favorable harvest weather. A light precipitation pattern continued over the Black Soils and Volga Valley regions, aiding harvest activity. In contrast, wet weather over the central North Caucasus continued to aggravate harvest efforts. Corn and sunflowers grown in the Ukraine and North Caucasus are in the early reproductive stages and would benefit from additional moisture. In addition, fieldwork for winter grain sowing began in the North Caucasus with sowing to begin by the end of August. Wet weather over crop areas of the Central Region and Volga Vyatsk provided favorable moisture for spring grains. Weekly temperatures over the European USSR were near normal in the west and below normal in the east.

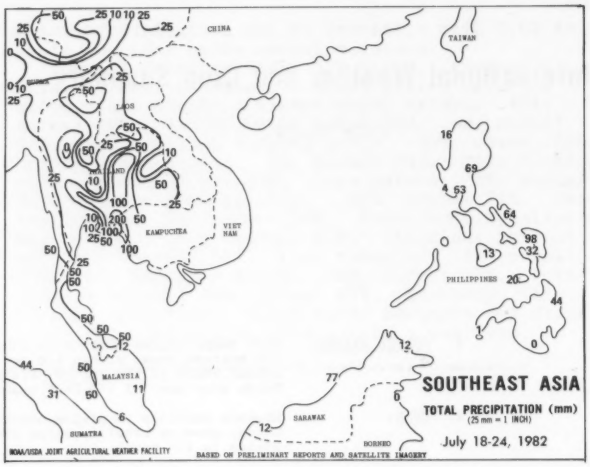
In the New Lands, scattered showers fell over northern and eastern spring grain areas late in the week. Precipitation ranged from 10 to 25 mm, benefiting spring grains which are in the grain-filling stage. The moisture falling on southeastern crop areas around Pavlodar and Semipalatinsk came too late as grains grown in these areas are maturing. Light, scattered showers also fell over southwestern spring grain areas but had little impact on the maturing crop. Weekly temperatures were below normal over the entire region.



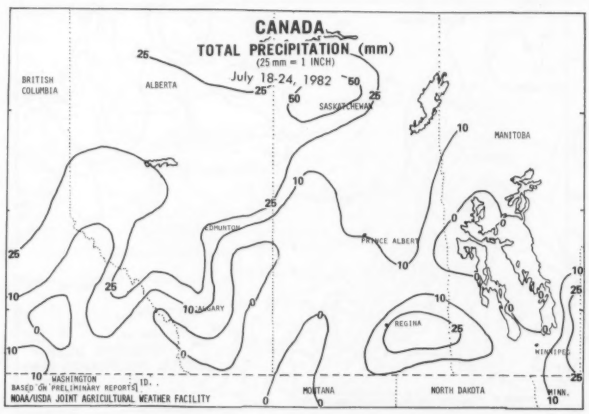
SOUTH AMERICA: Locally heavy showers again were concentrated over southern Brazil. Some areas of central Parana and eastern Rio Grande do Sul received over 50 mm of weekly rainfall. These crop areas have received abundant moisture over the past several weeks, leading to reports of delayed wheat planting and coffee harvesting and of excessive weed growth. Drier weather prevailed in most coffee areas, aiding the harvest this week. Beneficial, light showers fell over eastern wheat areas of Argentina before the frontal system intensified further to the northeast. Western crop areas of La Pampa and southern Buenos Aires were dry and seasonally cool.


SOUTH ASIA
TOTAL PRECIPITATION (mm)
(25 mm = 1 INCH)
July 18-24, 1982
BASED ON PRELIMINARY REPORTS AND SATELLITE IMAGERY
NOAA/USDA JOINT AGRICULTURAL WEATHER FACILITY

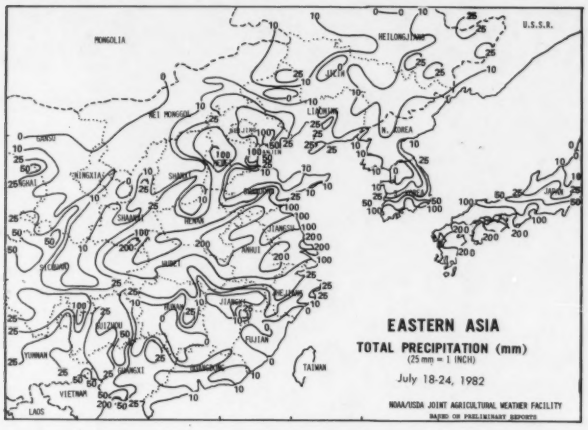
SOUTH ASIA: Rainfall increased over most of India and Bangladesh and spread into Pakistan. Many locations had substantially greater-than-normal rainfall. Dry areas persisted, however, most notably near the borders of Nepal and the Indian States of Bihar and Uttar Pradesh, to the northeast of the hills along India's southwest coast, and in parts of Rajasthan. The moisture markedly improved growing conditions and brightened the overall crop outlook for India. Temperatures were slightly above normal over most of the region but were near normal in peninsular India.



SOUTHEAST ASIA: The erratic nature of the summer rains persisted in Thailand. Well-above-normal rainfall in some rainfed rice areas of the east contrasted with scanty rain in other parts of that region, and crop prospects remained mixed. Likewise, variability was characteristic of the rainfall pattern in corn-growing areas. As the crop neared maturity, relatively good yields were expected from some areas, but others have likely suffered moderate losses. Reservoir source areas of the north had continued below-normal rainfall. Water supplies may be adequate for current crop needs on the Central Plains, but fall crops will suffer if irrigation cannot be done once the rains end. Temperatures held near normal. Satellite imagery indicated that rainfall in Kampuchea, Laos, and Vietnam was only slightly less than in Thailand.

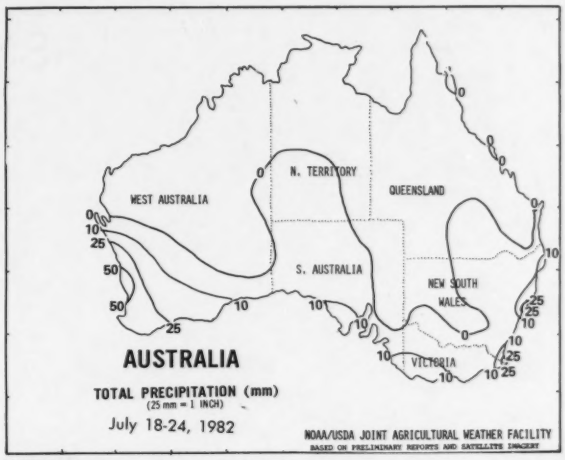


CANADA: Widespread showers produced beneficial moisture for wheat growth throughout the Prairie Provinces. Southeastern Saskatchewan, where persistent dryness had caused moisture stress during much of the early growth stages, especially welcomed the rain. Crop conditions had been rated fair in this portion of the wheat belt prior to the rains. Elsewhere, the rainfall maintained good to excellent growing conditions for wheat, barley, and other crops which have mostly progressed from the reproductive to the early grain-formation stages of development. In fact, the wheat crop was over 80 to 90 percent headed in much of the grain belt. Additional moisture would still be beneficial for crop development in southeastern Saskatchewan.

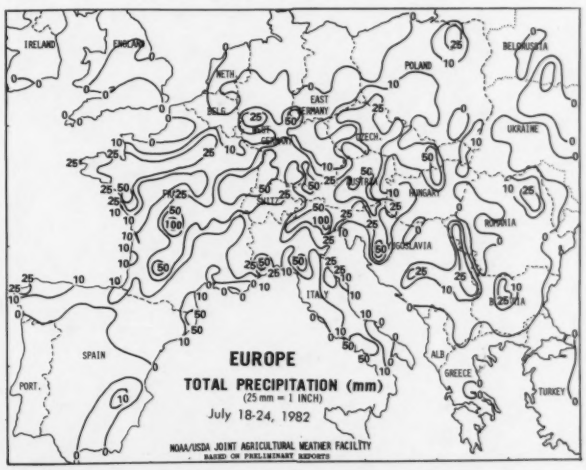


EASTERN ASIA: Heavy rainfall continued across southern portions of the North China Plain until late in the week. Many locations likely had some difficulty handling the excessive water in fields. Hubei cotton areas were spared the wetness, but cotton fields in southern Jiangsu had rains far above normal. Mostly dry weather persisted south of the Yangtze River. These conditions favored harvesting of early rice along the south coast, but some parts of the south have had very little rain for 4 consecutive weeks and could use additional moisture. Most of Hebei had generous rains which improved crop conditions. Scattered showers in northeastern China benefited localized areas, but most crop areas remained detrimentally dry. Temperatures were normal or slightly below in the northeast, substantially below normal in the wet area on the North China Plain, and near normal elsewhere. In South Korea, above-normal rains in the south substantially improved rice-growing conditions, but a return of dry weather in the north dimmed crop prospects. Temperatures were near normal in the north and slightly below normal in the south.

MEXICO: Rains continued over the southern Plateau, benefiting corn and beans. The northeast remained hot and dry, allowing the harvesting of grain sorghum and corn but further stressing rainfed citrus. Tropical rains, falling over the northwestern mountainous watersheds, increased irrigation supplies.



AUSTRALIA: Some light showers fell in eastern Australia, but weekly amounts were insignificant to benefit wheat in Queensland, New South Wales, and Victoria. Reports indicate that only about 80 percent of the wheat crop has been planted due to the lack of moisture. Substantial rains are needed very soon in order to plant crops in these areas. Otherwise, conditions will deteriorate beyond the point where even the shorter growth-cycle barley with its greater tolerance of dryness cannot be planted. The prolonged dry spell has seriously affected yield prospects throughout the area. In Western Australia, beneficial rains aided early growth of wheat. Moisture conditions are generally favorable for growth in western crop areas.



EUROPE: Wet weather covered the area from France eastward through southern West Germany and Italy, extending through Austria. Locally heavy showers were reported late in the week with amounts ranging from 50 to 100 mm. Those areas which received the heaviest rainfall may have had local flooding. Overall, the precipitation favored the corn crop but may have caused some delays in winter grain harvest activity. The precipitation falling on Italy brought some relief to the dry conditions of past weeks. Elsewhere, light, scattered precipitation fell on most crop areas, causing only minor delays in winter grain harvest activity which now extends into northern Europe.

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National Weather Summary

(continued from front page)

FRIDAY...Severe thunderstorms scattered over Arizona and spread northward into Nevada and Utah and northeastward to eastern Montana and into the Dakotas. Thunderstorms and showers covered the Southeast from Maryland to Florida and across the South through Texas. No rain fell over the Corn Belt, but temperatures benefited corn propagating.

SATURDAY...Thunderstorms scattered from southern Louisiana to the Carolinas and through Tennessee. In the West, the pattern of scattered showers and thunderstorms remained about the same as the day before but spread into southern California and across the northern Plains to the upper Mississippi Valley. High temperatures warmed to the high eighties through the Corn Belt and the nineties in most of the Plains.

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